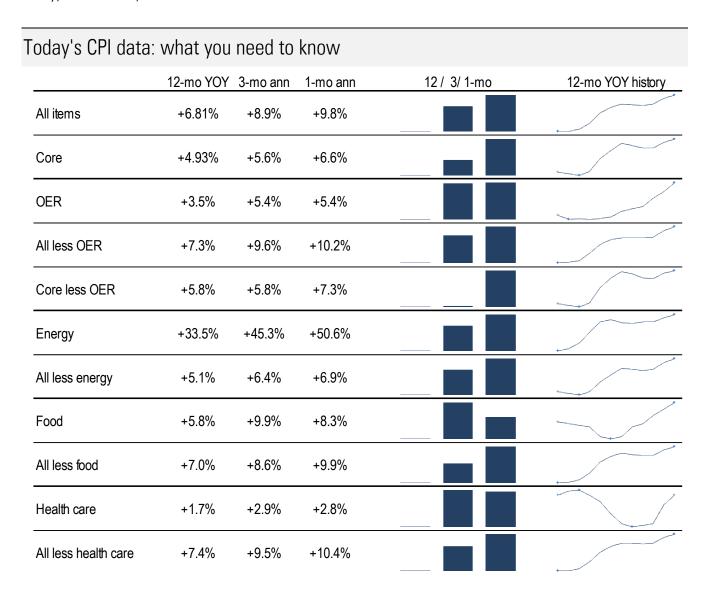


Data Insights: Consumer Price Index, Producer Price Index

Friday, December 10, 2021



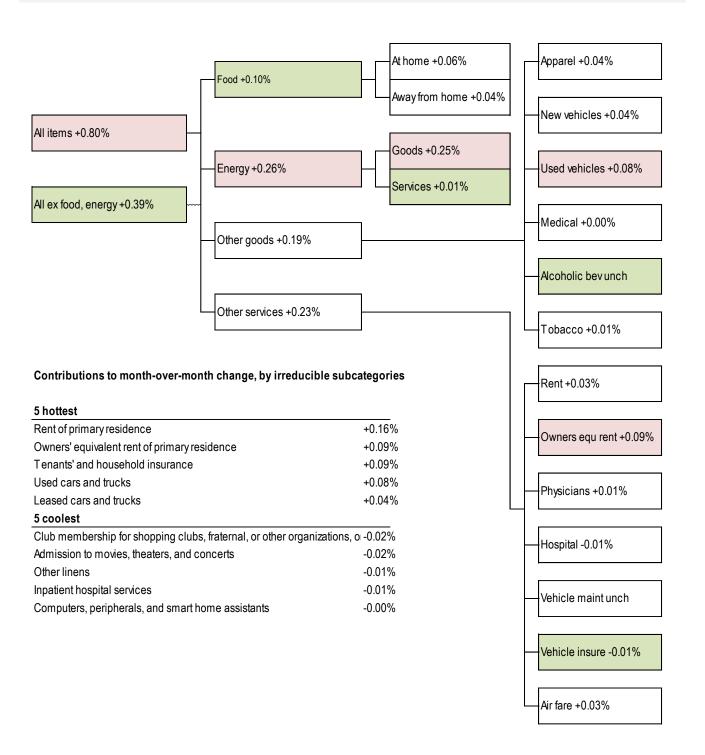
Source: BLS Consumer Price Index, TrendMacro calculations

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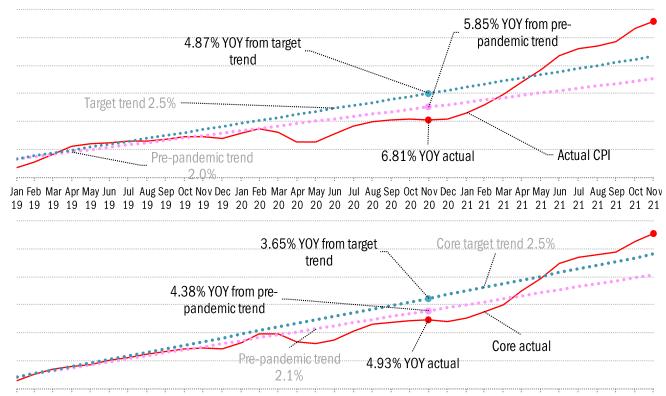
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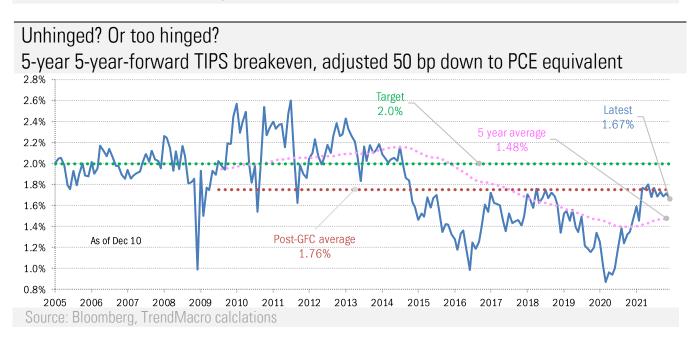


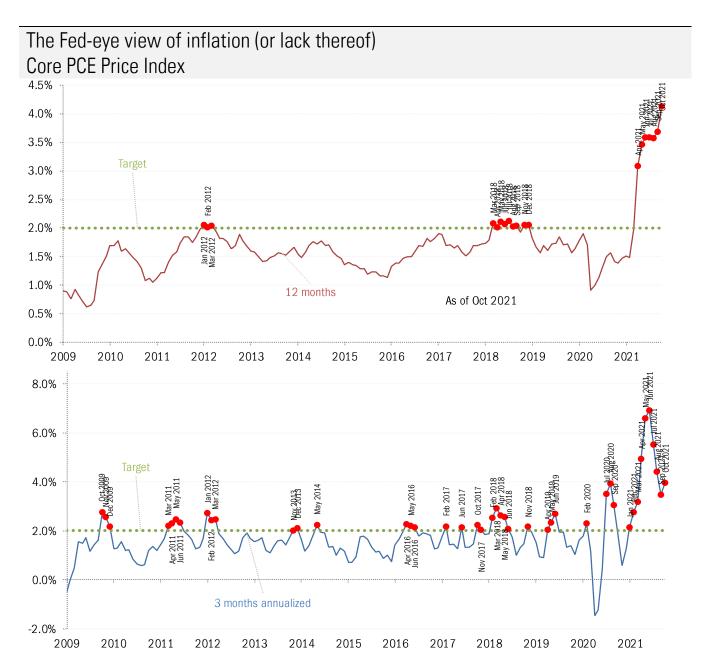
Source: BLS Consumer Price Index, TrendMacro calculations

"Transitory," "base-effect" or "optimal control? This month's data in context with the pre-pandemic and ideal 12-month trends

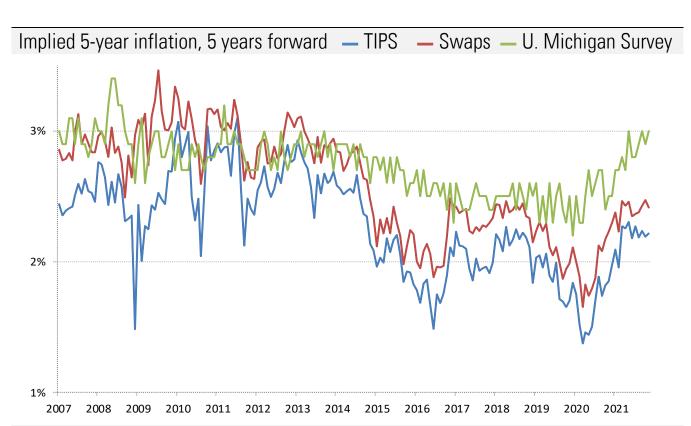


Source: Bureau of Labor Statistics, TrendMacro calclations

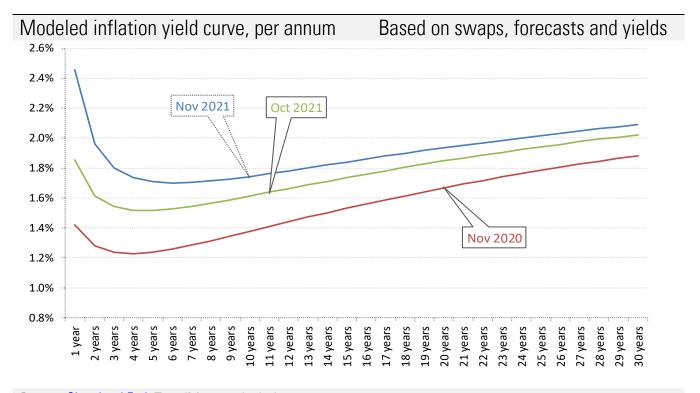




Source: Bureau of Economic Analysis, TrendMacro calclations

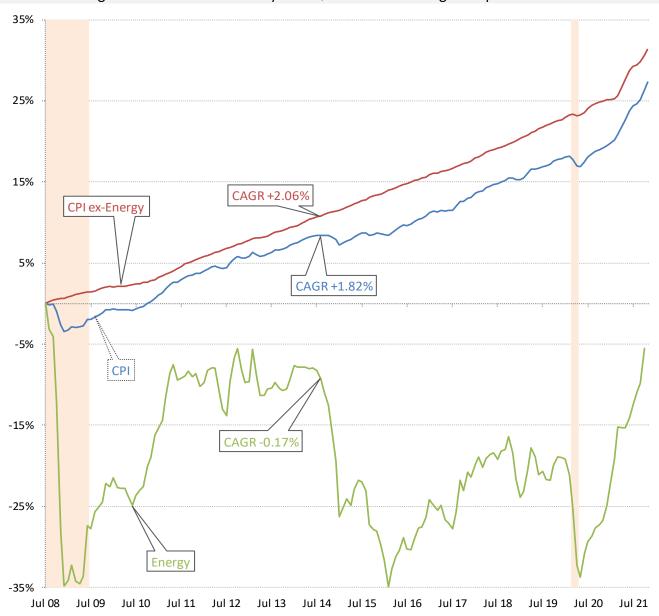


Source: Bloomberg, TrendMacro calculations

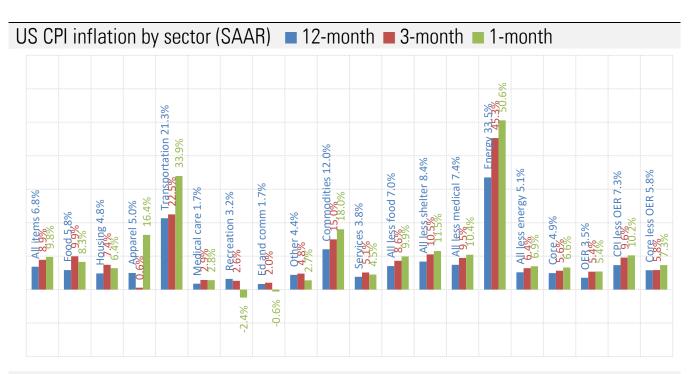


Source: Cleveland Fed, TrendMacro calculations

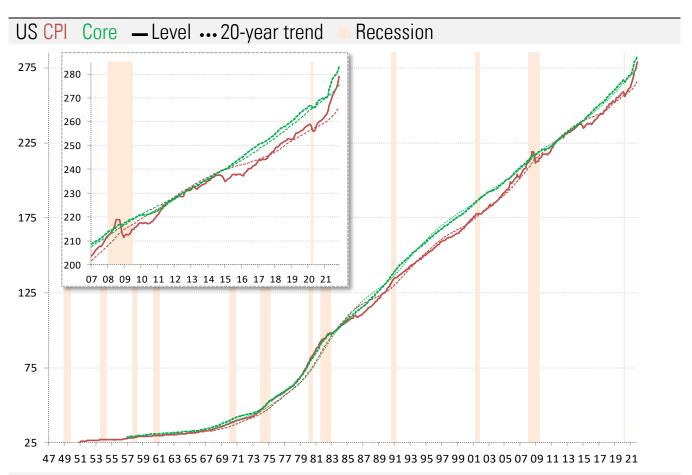
The deflation delusion: it's all about oil, and always has been Cumulative growth of CPI from July 2008, the all-time high oil price Recession



Source: Bloomberg, TrendMacro calclations



Source: BLS Consumer Price Index, TrendMacro calculations

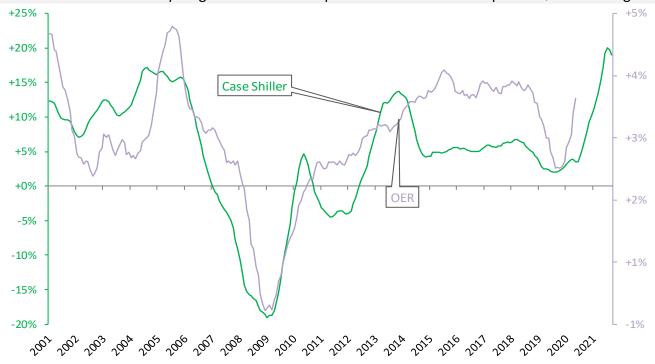


Source: BLS Consumer Price Index, TrendMacro calculations

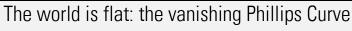
Housing leads US CPI

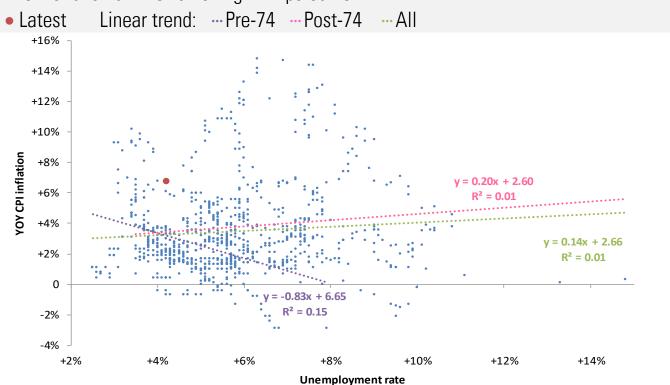
Year-over-year change

— Case Shiller 20-city avg — Owner's equivalent rent CPI component, 18-mo lag

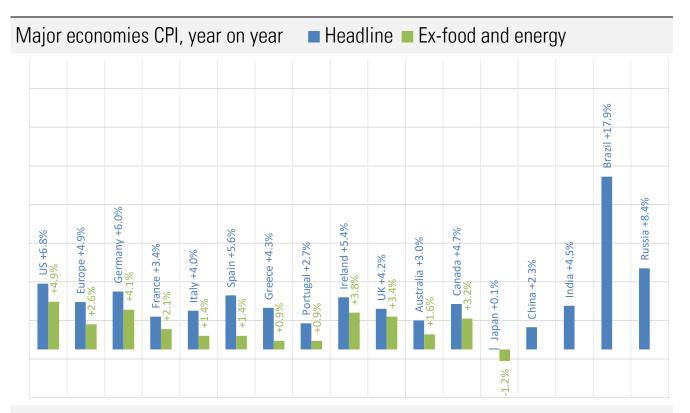


Source: BLS, Standard & Poor's Case Shiller, TrendMacro calculations

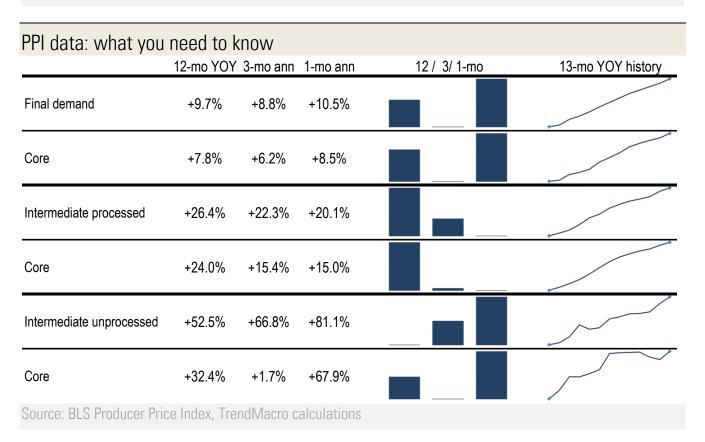




Source: BLS Consumer Price Index, Current Population Survey



Source: Respective Statistical agencies, TrendMacro calculations





Data Insights: Unconventional Consumer Price Indices

Friday, December 10, 2021

Foday's unconventi	12-mo YOY		1-mo ann	12 / 3 / 1-mo	12-mo YOY history
All items	+6.8%	+8.9%	+9.8%		
Core	+4.9%	+5.6%	+6.6%		
All items NSA	+6.8%	+6.6%	+6.1%		
Core NSA	+4.9%	+4.7%	+5.0%		
PCE deflator Oct	+5.0%	+5.6%	+7.8%		
Core PCE deflator Oct	+4.1%	+4.0%	+5.2%		
Trimmed mean PCE Oct	+2.6%	+3.9%	+4.2%		
Median CPI	+3.5%	+6.1%	+5.6%		
Trimmed mean CPI	+4.6%	+7.1%	+6.5%		
Sticky CPI	+3.4%	+4.7%	+4.0%		
Sticky core CPI	+3.2%	+4.4%	+3.8%		
Flexible CPI	+17.9%	+21.2%	+26.1%		
Flexible core CPI	+16.6%	+13.0%	+22.4%		
Underlying, prices Oct	+4.4%				
Underlying, all Oct	+4.3%				
	YOY change	3-mo	1-mo	12 / 3 / 1-mo	12-mo YOY history
ISM Manu prices paid	+17	+3	-3		
ISM Services prices paid	+18	+7	-1		/~~/~

Source: BLS, BEA, ISM, Cleveland Fed, Atlanta Fed, New York Fed, Dallas Fed, TrendMacro calculations

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Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

Data Insights: Federal Reserve

Wednesday, November 3, 2021

<u>Today's FOMC statement</u>: how the language changed from <u>prior meeting</u> <u>September 22November 03</u>, 2021

Federal Reserve issues FOMC statement

The Federal Reserve is committed to using its full range of tools to support the U.S. economy in this challenging time, thereby promoting its maximum employment and price stability goals.

With progress on vaccinations and strong policy support, indicators of economic activity and employment have continued to strengthen. The sectors most adversely affected by the pandemic have improved in recent months, but the summer's rise in COVID-19 cases has slowed their recovery. Inflation is elevated, largely reflecting factors that are expected to be transitory factors. Supply and demand imbalances related to the pandemic and the reopening of the economy have contributed to sizable price increases in some sectors. Overall financial conditions remain accommodative, in part reflecting policy measures to support the economy and the flow of credit to U.S. households and businesses.

The path of the economy continues to depend on the course of the virus. Progress on vaccinations will likely continue to reduce the effects of the public health crisis on the economy, but risksand an easing of supply constraints are expected to support continued gains in economic activity and employment as well as a reduction in inflation. Risks to the economic outlook remain.

The Committee seeks to achieve maximum employment and inflation at the rate of 2 percent over the longer run. With inflation having run persistently below this longer-run goal, the Committee will aim to achieve inflation moderately above 2 percent for some time so that inflation averages 2 percent over time and longer-term inflation expectations remain well anchored at 2 percent. The Committee expects to maintain an accommodative stance of monetary policy until these outcomes are achieved. The Committee decided to keep the target range for the federal funds rate at 0 to 1/4 percent and expects it will be appropriate to maintain this target range until labor market conditions have reached levels consistent with the Committee's assessments of maximum employment and inflation has risen to 2 percent and is on track to moderately exceed 2 percent for some time. LastIn light of the substantial further progress the economy has made toward the Committee's goals since last December, the Committee indicated that it would continue to decided to begin reducing the monthly pace of its net asset purchases by \$10 billion for Treasury securities and \$5 billion for agency mortgage-backed securities. Beginning later this month, the Committee will increase its holdings of Treasury securities by at least \$8070 billion per month and of agency mortgage-backed securities by at least \$4035 billion per month until substantial further progress has been made toward its maximum employment and price stability goals. Since then, the economy has made progress toward these goals. If progress continues broadly as expected, the Committee. Beginning in December, the Committee will increase its holdings of Treasury securities by at least \$60 billion per month and of agency mortgage-backed securities by at least \$30 billion per month. The Committee judges that a moderation similar reductions in the pace of asset purchases may soon be warranted. These net asset purchases helpwill likely be appropriate each month, but it is prepared to adjust the pace of purchases if warranted by changes in the economic outlook. The Federal Reserve's ongoing purchases and holdings of securities will continue to foster smooth market functioning and accommodative financial conditions, thereby supporting the flow of credit to households and businesses.

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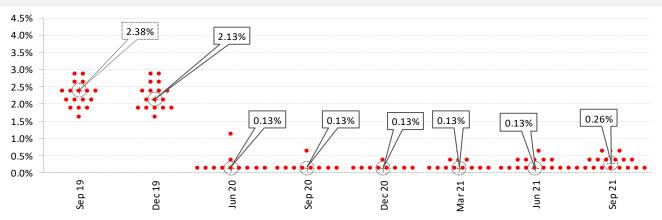
In assessing the appropriate stance of monetary policy, the Committee will continue to monitor the implications of incoming information for the economic outlook. The Committee would be prepared to adjust the stance of monetary policy as appropriate if risks emerge that could impede the attainment of the Committee's goals. The Committee's assessments will take into account a wide range of information, including readings on public health, labor market conditions, inflation pressures and inflation expectations, and financial and international developments.

Voting for the monetary policy action were Jerome H. Powell, Chair; John C. Williams, Vice Chair; Thomas I. Barkin; Raphael W. Bostic; Michelle W. Bowman; Lael Brainard; Richard H. Clarida; Mary C. Daly; Charles L. Evans; Randal K. Quarles; and Christopher J. Waller.

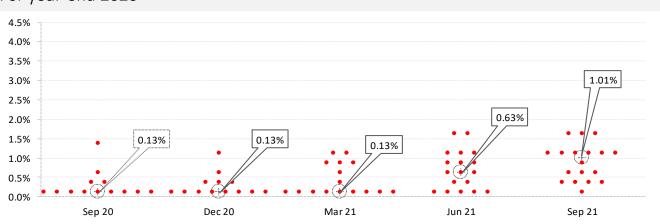
Source: FOMC, TrendMacro analysis



For year-end 2022

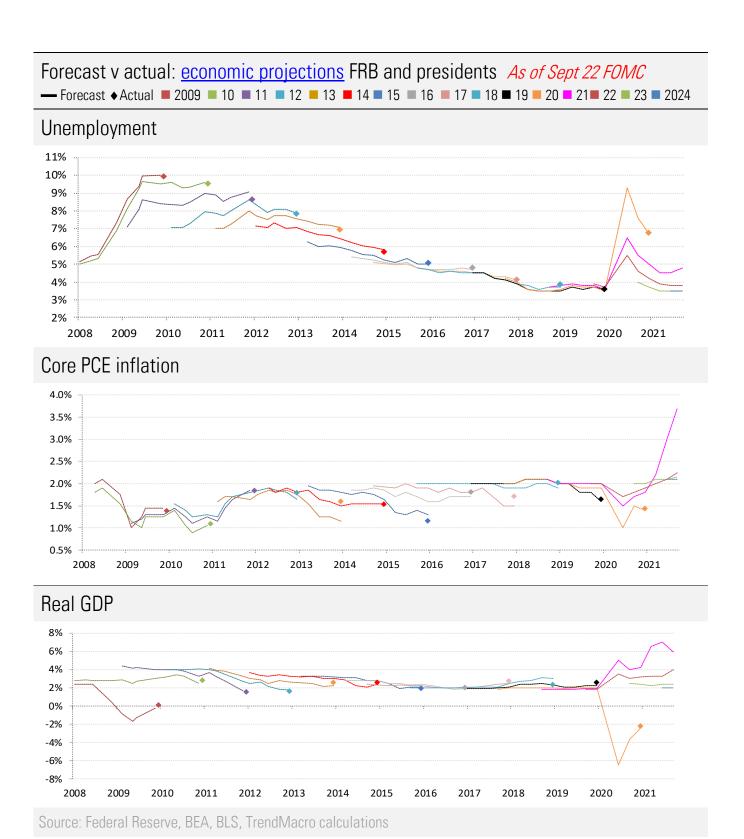


For year-end 2023



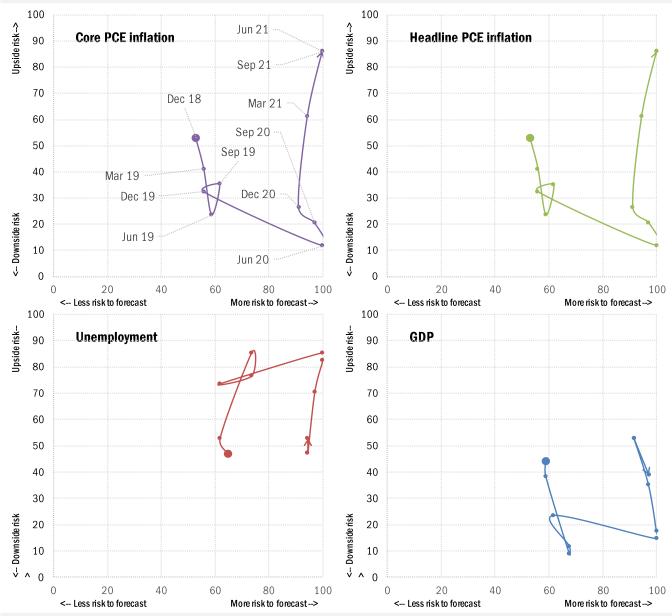
For year-end 2024



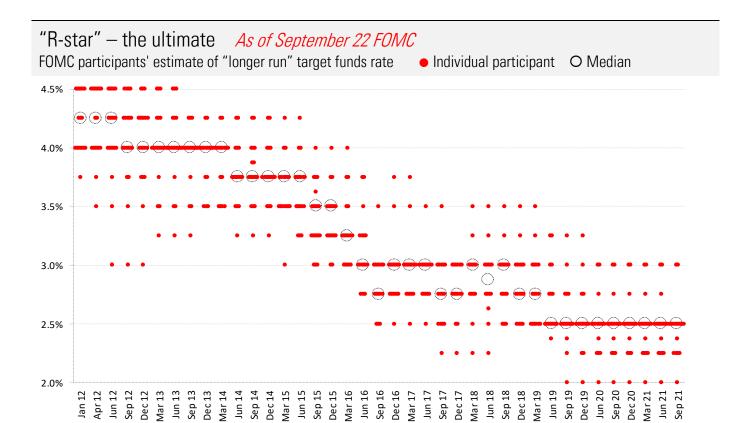


The evolution of uncertainty As of September 22 FOMC

Diffusion indices from FOMC participants' risk self-assessments in Summary of Economic Projections



Source: Federal Reserve Board, TrendMacro calculations

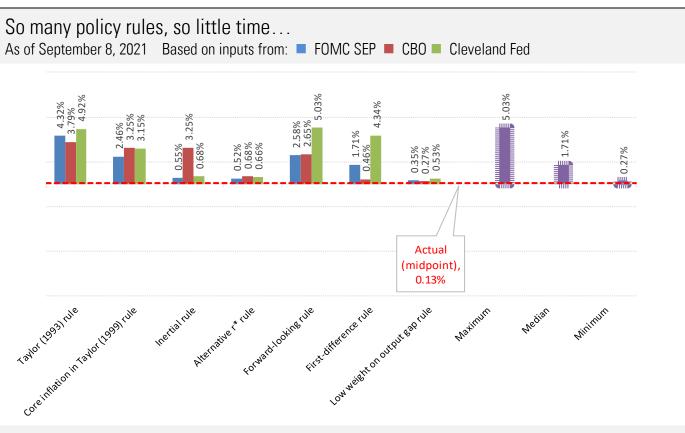


Source: Federal Reserve, TrendMacro calculations

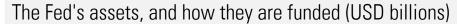
Other voices: number and direction of FOMC decision dissents

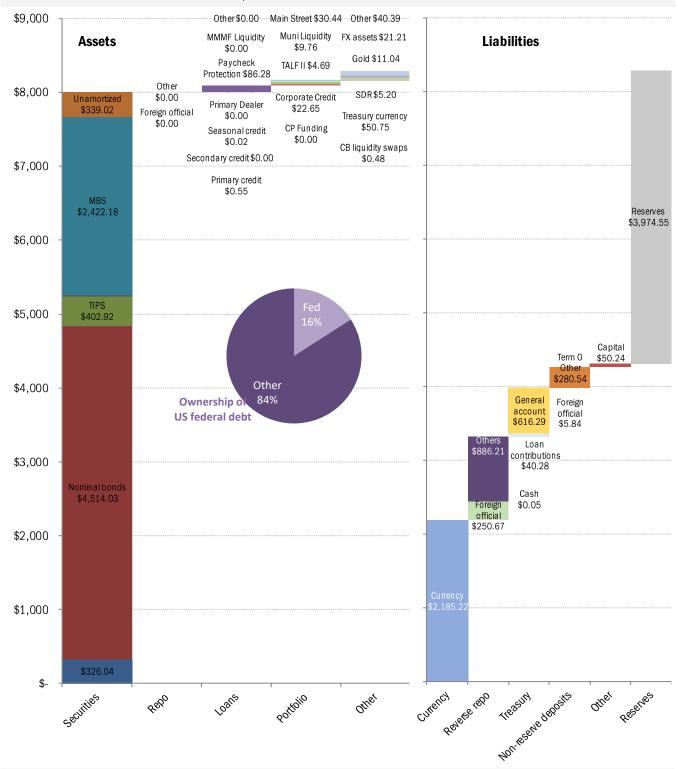


Source: FOMC, TrendMacro calculations

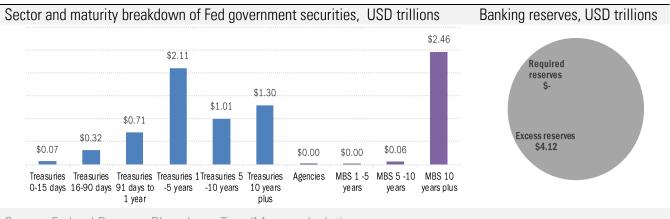


Source: Cleveland Fed, TrendMacro calculations

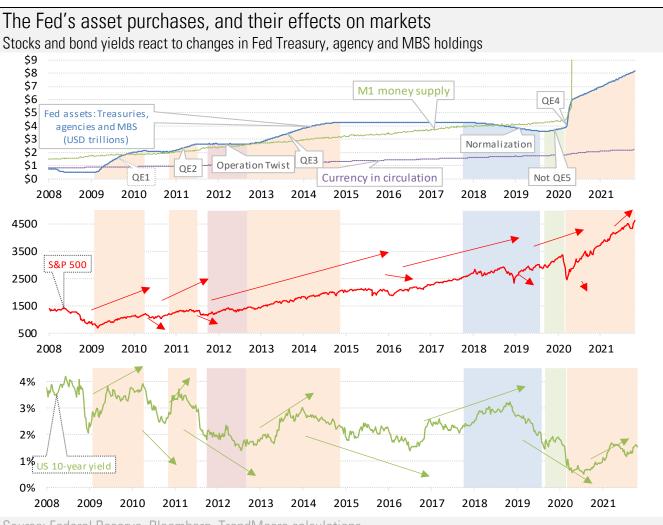




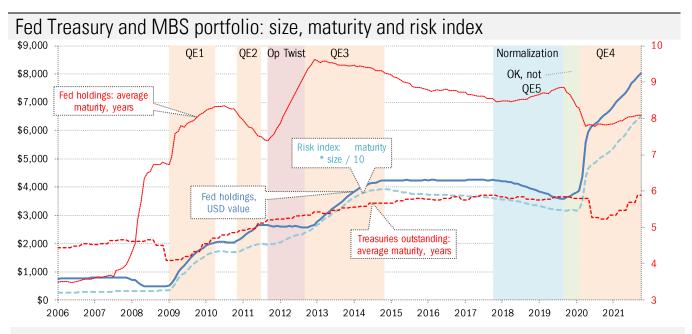
Source: Federal Reserve H.4, US Treasury, TrendMacro calculations



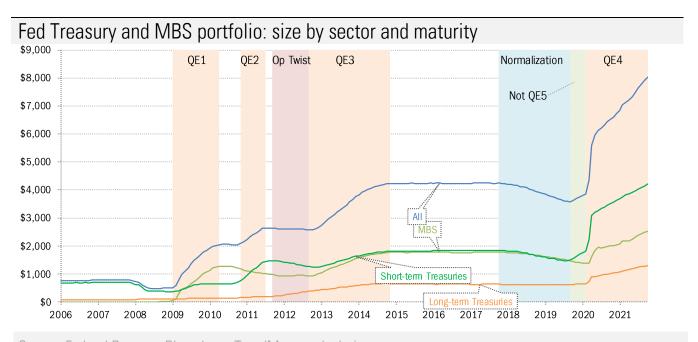
Source: Federal Reserve, Bloomberg, TrendMacro calculations



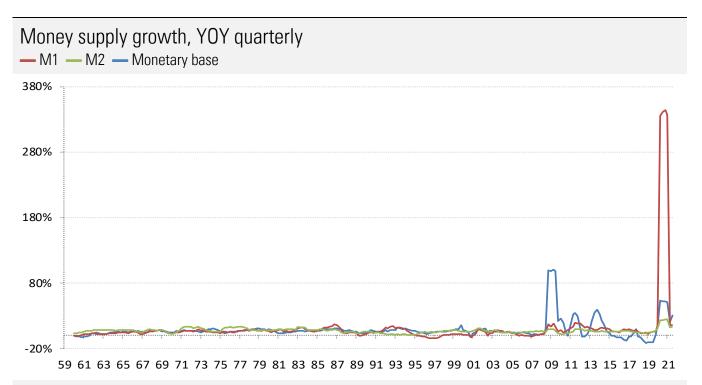
Source: Federal Reserve, Bloomberg, TrendMacro calculations



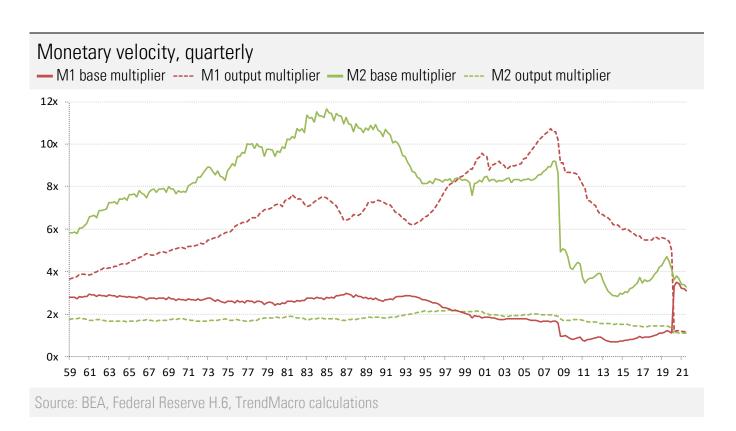
Source: Federal Reserve, Bloomberg, TrendMacro calculations



Source: Federal Reserve, Bloomberg, TrendMacro calculations



Source: Federal Reserve H.6, TrendMacro calculations





Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

Data Insights: FOMC Minutes

Wednesday, November 24, 2021

November minutes: key signaling language Featured Important Very important

...In their discussion of current conditions, participants noted that, with progress on vaccinations and strong policy support, indicators of economic activity and employment had continued to strengthen. The sectors most adversely affected by the pandemic had improved in recent months, but the summer's rise in COVID-19 cases had slowed their recovery. Inflation was elevated, largely reflecting factors that were expected to be transitory. Supply and demand imbalances related to the pandemic and the reopening of the economy had contributed to sizable price increases in some sectors. Overall financial conditions remained accommodative, in part reflecting policy measures to support the economy and the flow of credit to U.S. households and businesses. Participants noted that the path of the economy continued to depend on the course of the virus. Progress on vaccinations and an easing of supply constraints were expected to support continued gains in economic activity and employment as well as a reduction in inflation, but risks to the economic outlook remained.

Participants observed that growth in economic activity had slowed in the third quarter to a rate significantly below the robust pace seen in the first half of the year. The spread of the Delta variant had contributed to the slowdown in growth in the third quarter by damping household and business spending, holding down labor supply, and intensifying supply chain disruptions. Participants noted that the underlying conditions supporting growth in demand remained strong and that, as the number of COVID-19 cases remained well below the summer's levels, growth in economic activity would likely show a pickup in the fourth quarter. They further foresaw robust growth in 2022, supported by progress on vaccinations and an easing of supply constraints.

In their discussion of the household sector, participants remarked that demand for most consumer goods had remained strong. They noted that businesses had generally recorded robust sales despite labor shortages and other supply disruptions that had prevented them from fully meeting higher demand for their products. Participants interpreted available data as suggesting that the spread of the Delta variant had slowed the shift of consumer demand toward purchases of services and away from spending on goods, stretching out the full reopening of the economy and intensifying supply and demand imbalances. Participants observed that households had strong balance sheets and that consumer spending would also be supported by accommodative financial conditions. A number of participants noted that there was likely to be a drag on household spending as previous fiscal support faded, or that fiscal policy might provide some support to aggregate demand if the Congress authorized major new federal appropriations.

Participants remarked that supply chain challenges and limited labor availability continued to be major constraints on manufacturing activity and the business sector more broadly. Bottleneck pressures faced by businesses were accompanied by global supply chain disruptions associated with major backlogs in shipments and transportation as well as surging demand for a variety of goods, shortages of labor and other inputs, increases in costs of production, and depleted inventory levels in key sectors. Many business contacts had experienced a worsening of supply chain problems, and participants reported that firms had responded to these challenges by taking a variety of actions, including raising prices, turning away customers, restructuring supply chains, and using alternative, but higher-cost, shipping options. Participants judged that supply constraints would likely continue for longer than they had previously expected.

Participants noted that data received over the intermeeting period indicated that labor market conditions had continued to improve. Al-though the September increase in payrolls had been moderate compared with recent months, the unemployment rate had declined further and previous months' job growth had been revised up. Participants observed that September's rise in payrolls had been held down by a shortage of workers, in part reflecting the ongoing effect of the virus on labor supply decisions. With COVID-19 cases expected to remain below the summer's levels, participants anticipated better payroll numbers in the months ahead. Participants

indicated that District contacts continued to report difficulties in finding and retaining workers and that, in addition to offering higher wages, businesses were turning to increased use of automation.

While recognizing that labor market conditions varied significantly across the country, some participants cited a number of signs that the U.S. labor market was very tight: These included data on quits, job availability, and stronger rates of nominal wage growth reflected in the recent rise in the employment cost index, as well as the readings provided by the Federal Reserve Bank of Kansas City's Labor Market Conditions Indicators. A number of participants observed that the labor force participation rate remained well below the level reached before the pandemic. Several participants judged that labor force participation would be structurally lower than in the past, and a few of these participants cited the high level of retirements recorded since the start of the pandemic. Several other participants suggested that labor supply was currently being depressed by pandemic-related factors such as disruptions related to caregiving arrangements and noted that the importance of such factors would likely diminish as economic and public health conditions improved further.

Participants generally saw the current elevated level of inflation as largely reflecting factors that were likely to be transitory but judged that inflation pressures could take longer to subside than they had previously assessed. They remarked that the Delta wave had intensified the impediments to supply chains and had helped sustain the high level of goods demand, adding to the upward pressure on prices. Participants also observed that increases in energy prices, stronger rates of nominal wage growth, and higher housing rental costs had been forces adding to inflation. Some participants highlighted the fact that price increases had become more widespread. Although participants expected significant inflation pressures to last for longer than they previously expected, they generally continued to anticipate that the inflation rate would diminish significantly during 2022 as supply and demand imbalances abated. Nonetheless, they indicated that their uncertainty regarding this assessment had increased. Many participants pointed to considerations that might suggest that elevated inflation could prove more persistent. These participants noted that average inflation already exceeded 2 percent when measured on a multiyear basis and cited a number of factors—such as businesses' enhanced scope to pass on higher costs to

their customers, the possibility that nominal wage growth had become more sensitive to labor market pressures, or accommodative financial conditions—that might result in inflation continuing at elevated levels. Some other participants, however, remarked that although inflationary pressures were lasting longer than anticipated, those pressures continued to reflect the same pandemic-related imbalances and would likely abate when supply constraints eased. These participants also noted that the most sizable price increases may have already occurred, that there was as yet little evidence of a change in inflation dynamics—such as the development of a wage—price spiral—that would tend to prolong elevated levels of inflation, and that forces already in motion would likely bring inflation down toward 2 percent over the medium term. Participants were attentive to the sizable increase in the cost of living that had taken place this year and the associated burden on U.S. households, particularly those who had limited scope to pay higher prices for essential goods and services.

In their comments on inflation expectations, a number of participants discussed the risk that, in light of recent elevated levels of inflation, the public's longer-term expectations of inflation might increase to a level above that consistent with the Committee's longer-run inflation objective; such a development could make it harder for the Committee to achieve 2 percent inflation over the longer run. A couple of participants pointed to increases in survey- and market-based indicators of expected inflation—including the notable rise in the five-year TIPS-based measure of inflation compensation—as possible signs that inflation expectations were becoming less well anchored. Several other participants, however, remarked that measures of near-and medium-term inflation expectations typically had been sensitive to movements in realized inflation and that they had not exhibited greater sensitivity recently. They additionally pointed out that indicators of longer-term inflation expectations—including the five-year, five-year-forward measure of inflation compensation—continued to display less sensitivity to realized inflation and remained well anchored at levels consistent with the Committee's longer-run 2 percent goal.

Participants observed that uncertainty about the economic outlook remained high. They particularly stressed uncertainties associated with the labor market, including the evolution of labor force participation, and with the length of time required to resolve the supply chain situation. Participants cited upside risks to inflation, including those associated with strong demand for goods and a tight labor market.

Upside risks to economic activity included a potential near-term boost to aggregate demand that could arise from the drawing down of the substantial savings accumulated by households since the beginning of the pandemic. A few participants mentioned an upsurge in COVID-19 cases during the coming winter or an emergence of new virus strains as possibilities that, if they were realized, would damp economic activity and intensify price pressures.

A number of participants commented on issues related to financial stability. A couple of participants noted factors supporting the strength and resilience of the U.S. financial system, including the solid capital and liquidity conditions of banks and the fact that underwriting standards for residential mortgages had not eased substantially in an environment of rising house prices. A few participants emphasized the importance of maintaining strong bank capital positions, particularly at the largest banks. A few participants also cited a number of factors representing potential vulnerabilities to the financial system: These included elevated asset valuations prevailing widely across asset classes, the growing exposure of banks to nonbank financial firms, and the risk of a sudden reduction in the liquidity of collateral used at central counterparty clearing and settlement systems. In the area of cybersecurity, a few participants stressed the importance of greater preparedness against a cyberattack that could disrupt the nation's payments process and financial system. Several participants commented on the financial stability risks—including those relating to maturity and liquidity transformation—associated with stablecoins and on the need for regulators to address these risks. A few participants noted the importance of developing systematic monitoring of the climate-related risks facing the financial system.

In their consideration of the stance of monetary policy, participants agreed that the economy had made substantial further progress toward the Committee's goals since December 2020, when the Committee adopted its guidance regarding asset purchases. The unemployment rate had declined to 4.8 percent in September—about 2 percentage points lower than the level last December—and job openings and other indicators also were pointing to widespread strength in labor demand, consistent with a broad improvement in labor market conditions. Consequently, participants assessed that the criterion of substantial further progress had been met with regard to the Committee's maximum employment goal. In addition, participants generally

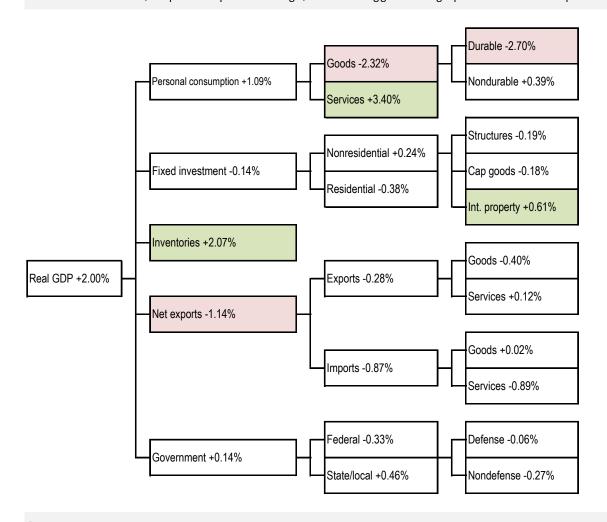


Data Insights: GDP

Thursday, October 28, 2021

Today's GDP data: what you need to know -- where did the growth come from?

Contributions to real, sequential quarter change, SAAR Biggest change per detail-level: ■ positive ■ negative

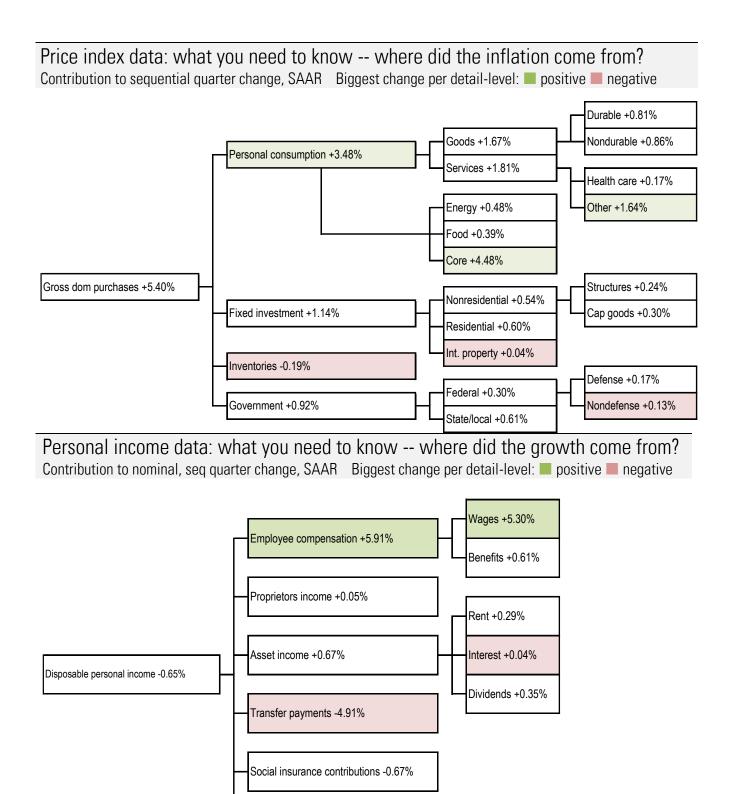


Source: Bureau of Economic Analysis

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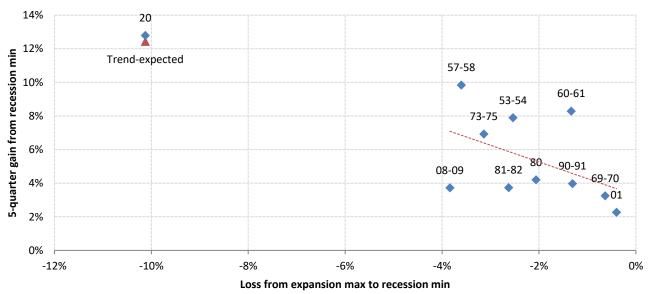


Source: Bureau of Economic Analysis, TrendMacro calculations

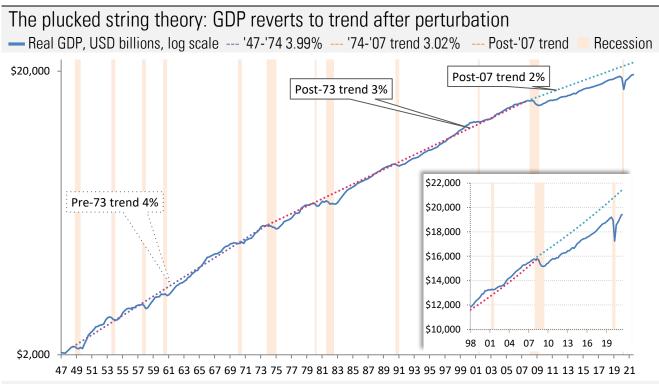
Taxes -1.71%

The Zarnowitz Law: severity of output loss in recession, versus vigor of recovery

◆ Actual --- Regression for recessions 1948-2001 ▲ Theoretical for 2009-19 recovery based on regression



Source: Bureau of Economic Analysis, National Bureau of Economic Research, TrendMacro calculations

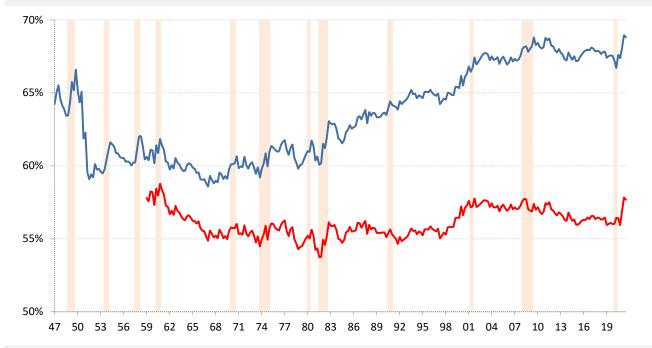


Source: Bureau of Economic Analysis, National Bureau of Economic Research, TrendMacro calculations

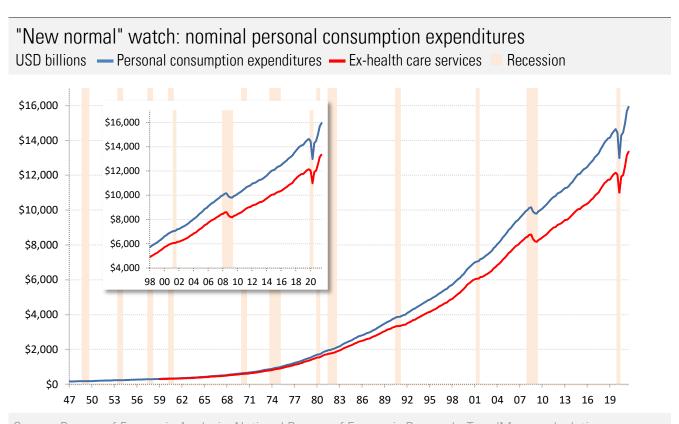
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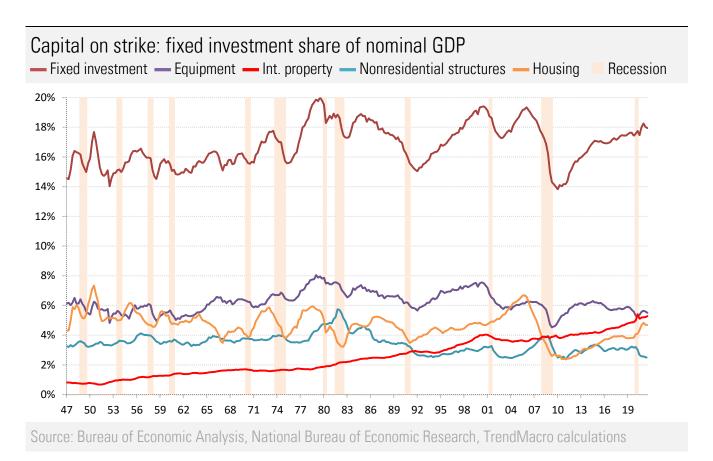


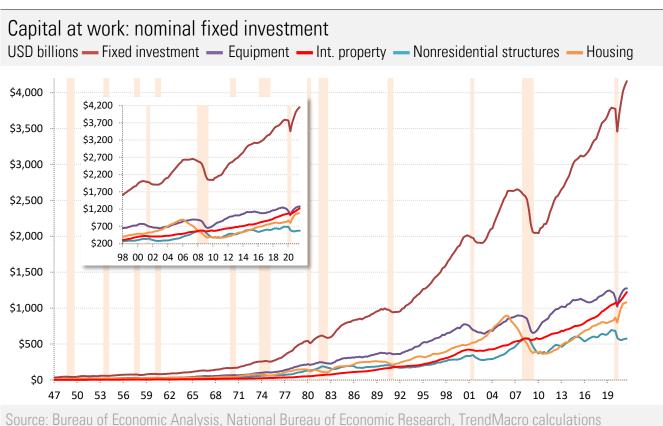


Source: Bureau of Economic Analysis, National Bureau of Economic Research, TrendMacro calculations



Source: Bureau of Economic Analysis, National Bureau of Economic Research, TrendMacro calculations



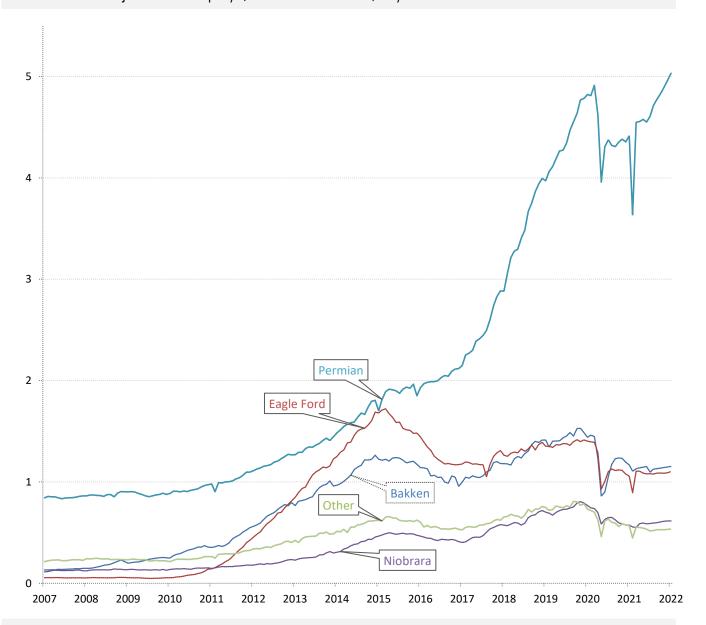




Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

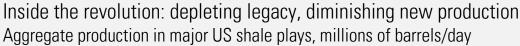
Data Insights: Oil Tuesday, December 14, 2021

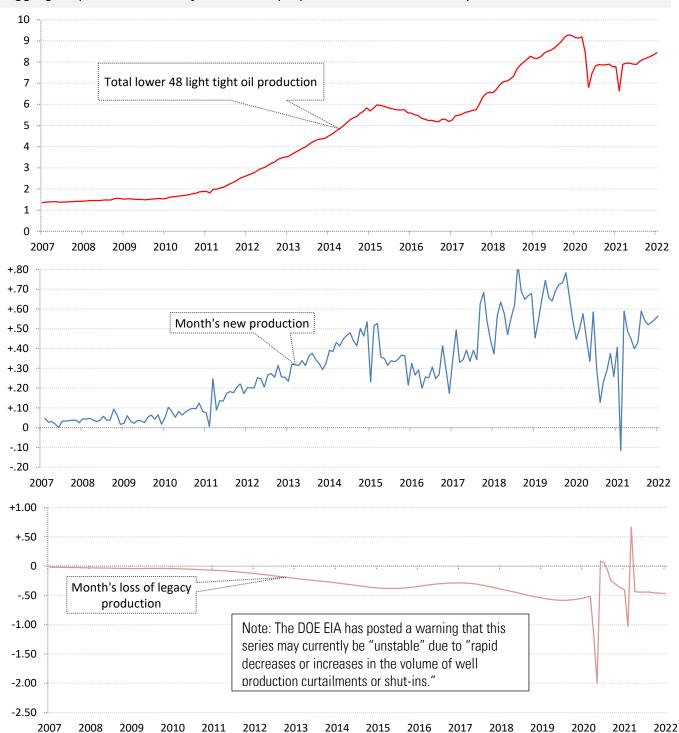
The light tight oil revolution -- the rollover, the recovery and the lockdown Production in major US shale plays, millions of barrels/day



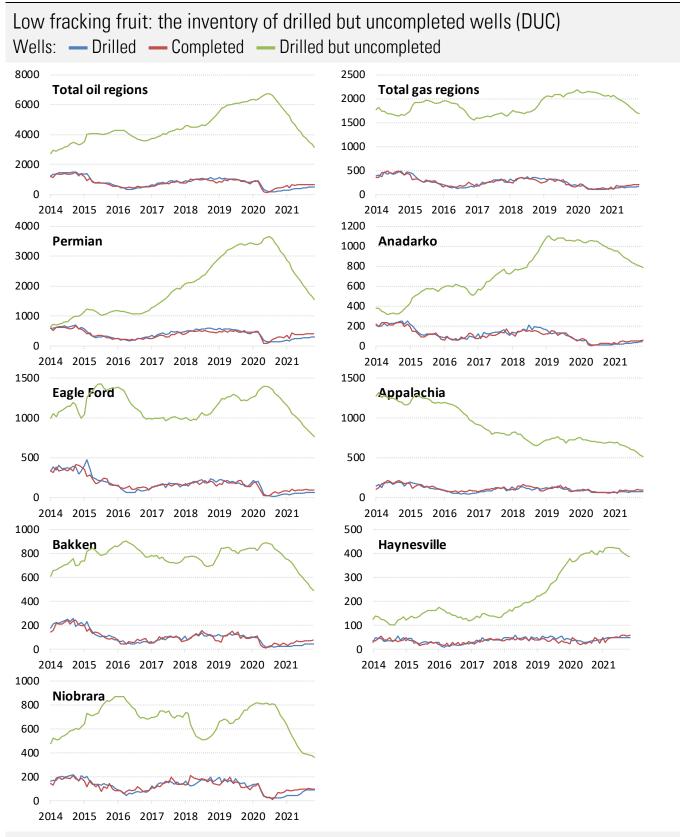
Source: DOE EIA Drilling Productivity Report, TrendMacro calculations

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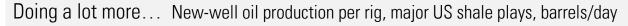


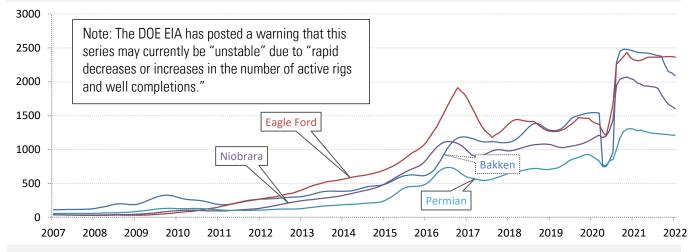


Source: DOE EIA Drilling Productivity Report, TrendMacro calculations



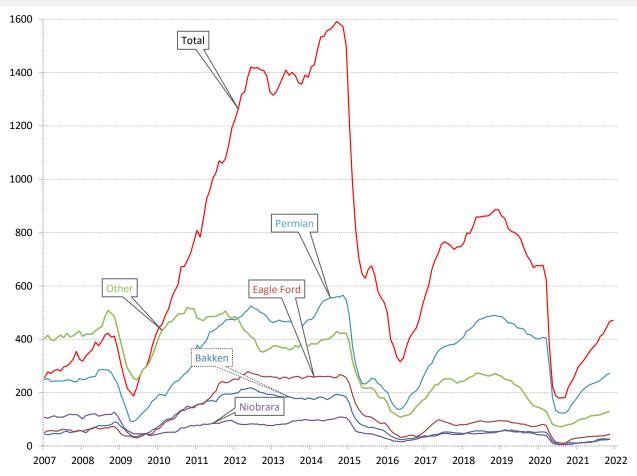
Source: DOE EIA Drilling Productivity Report, TrendMacro calculations





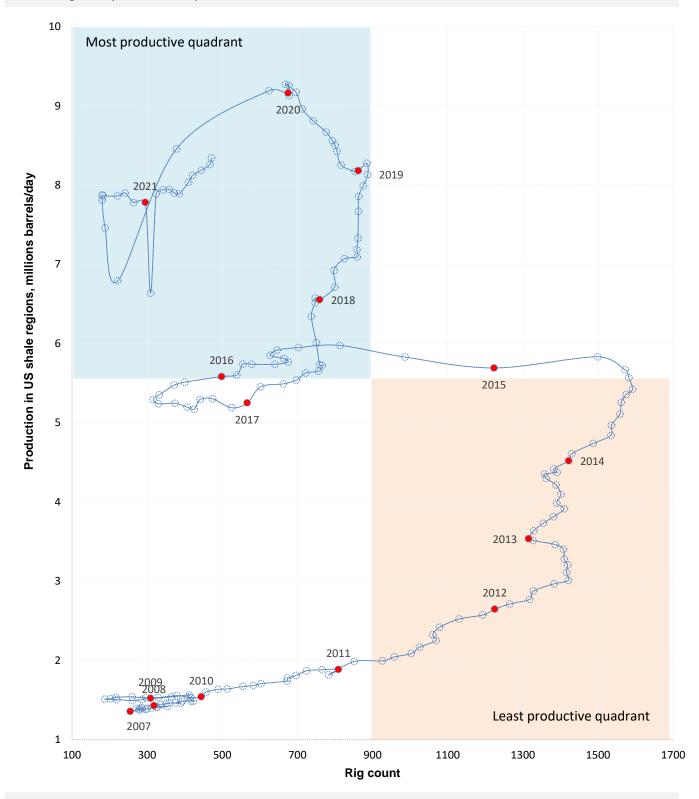
Source: DOE EIA Drilling Productivity Report, TrendMacro calculations

...with a lot less Rig count, total oil and major US shale plays

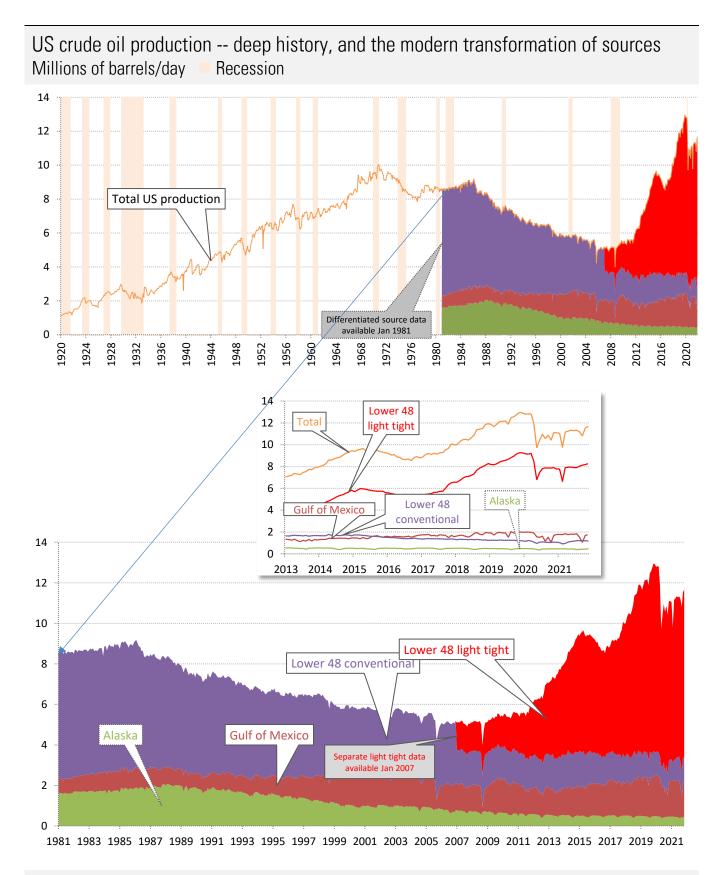


Source: DOE EIA Drilling Productivity Report, Baker Hughes, TrendMacro calculations

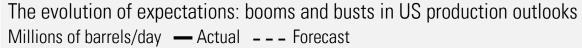
Flooding the productivity zone

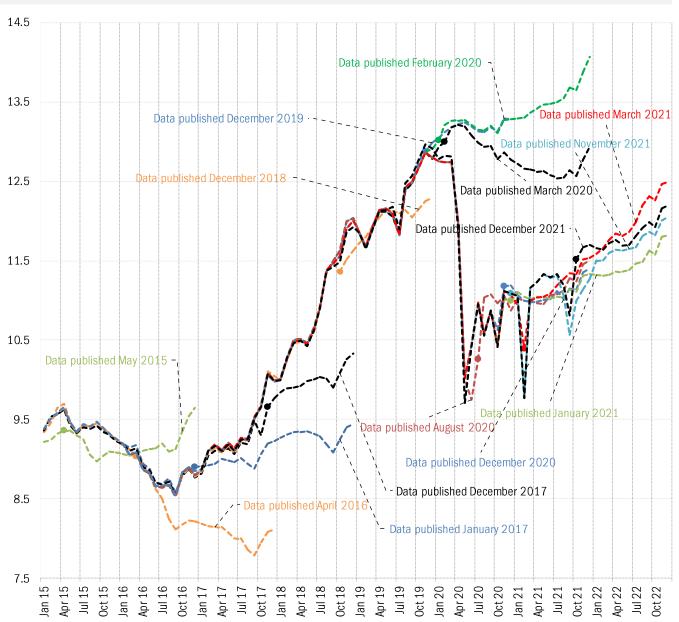


Source: DOE EIA Drilling Productivity Report, TrendMacro calculations

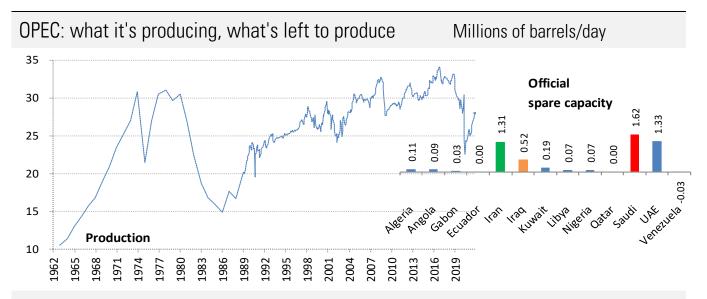


Source: DOE EIA Short Term Energy Outlook, Drilling Productivity Report, TrendMacro calculations

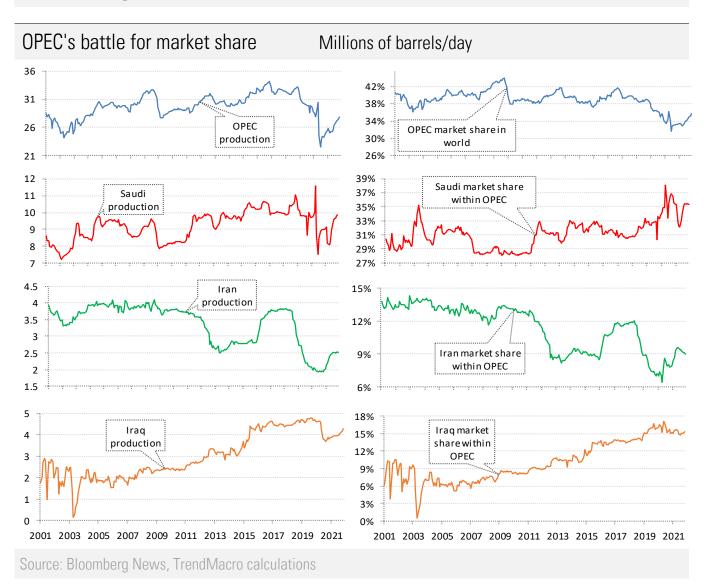


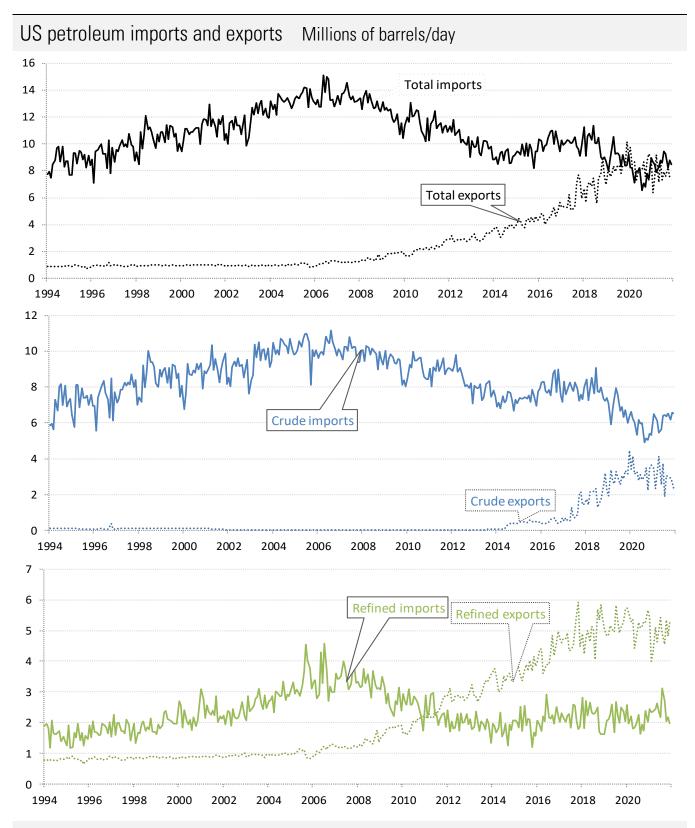


Source: DOE EIA Short Term Energy Outlook, TrendMacro calculations



Source: Bloomberg News, TrendMacro calculations



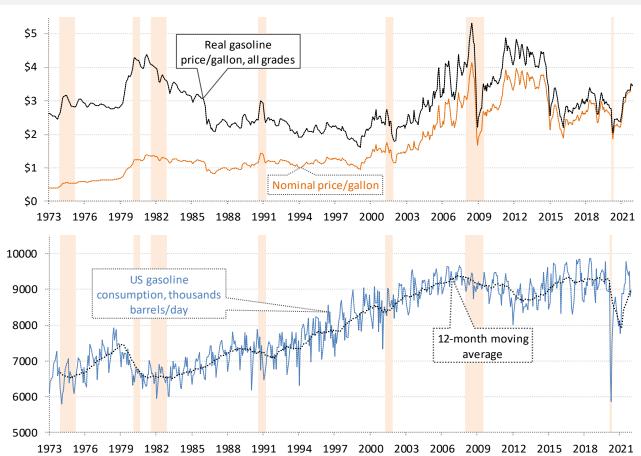


Source: DOE Weekly Petroleum Status Report, TrendMacro calculations

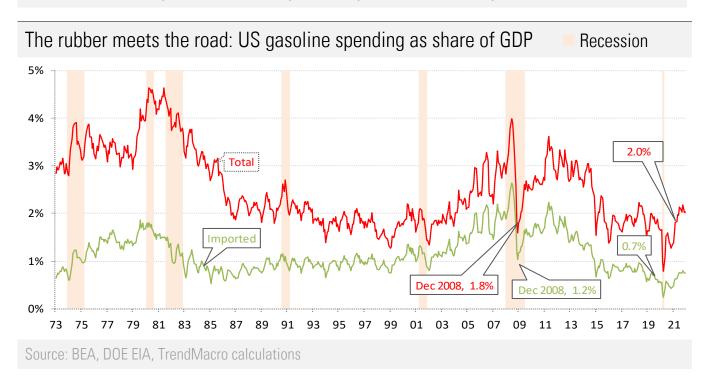


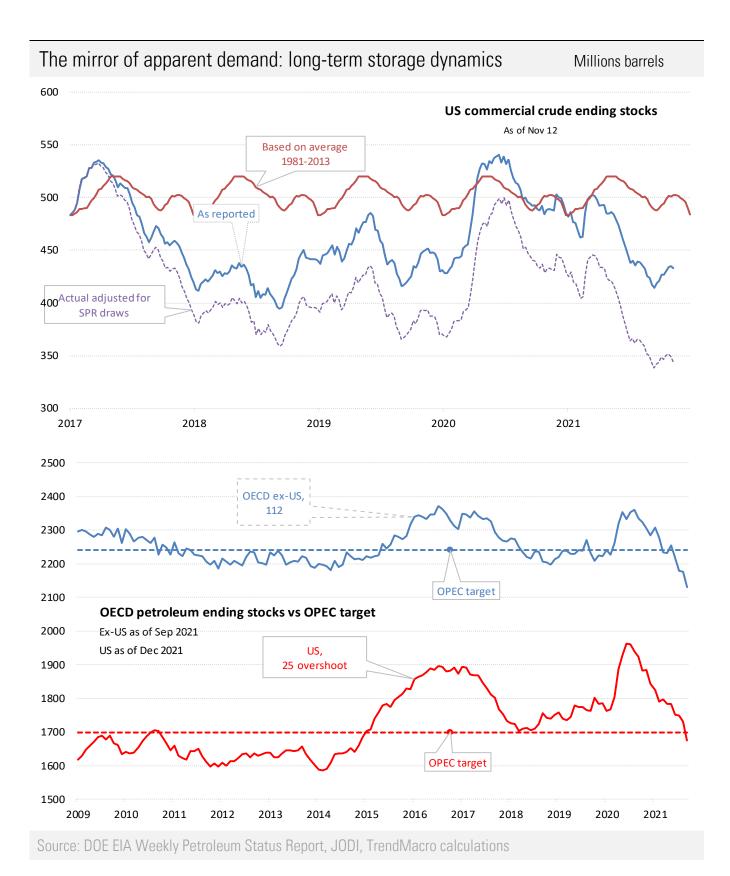
Source: DOE EIA Short Term Energy Outlook, TrendMacro calculations

US gasoline: building back from a mobility implosion



Source: DOE EIA Weekly Petroleum Status Report, Weekly Retail Gasoline Survey, TrendMacro calculations







Data Insights: Jobs

Friday, December 3, 2021

Today's jobs data: what you need to know

roddy o jobo data. Will	at you not	Ja to it	11000		
Non-farm payrolls	Change Nov:	+210	Revision Oct: +15	Revision Sep: +67	_e atatha.
Private payrolls	Change Nov:	+235	Revision Oct: +24	Revision Sep: +59	,.Hallot.
Employment	Change Nov:	+1136			
Unemployment	Change Nov:	-542			_հերիկ
Long -term unemployment	Change Nov:	-119			
Civilian labor force	Change Nov:	+594	1.47 million below trend	More than all entrants employed	المسملات
Unemployment rate	Nov:	4.24%	Change Nov: -0.35%		
Underemployment rate	Nov:	7.8%	Change Nov: -0.5%		
Participation rate	Nov:	61.8%	Change Nov: +0.2%		
UE adjusted for participation	Nov:	10.3%	Change Nov: -0.62%		
Average weeks unemployed	Nov:	28.9	Change Nov: +2.2		
% longterm unemployed	Nov:	32.1%	Change Nov: +0.5%		
Aggregate hours worked index	Nov:	110.7	Change Nov: +0.5%	Revision Oct: +0	
Average hourly earnings	Nov:	+0.26%	Change Nov: -0.10%	Revision Oct: +0.00%	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Aggregate weekly earnings	Nov:	164.2	Change Nov: +0.7%	Revision Oct: unch	,
Monthly job-finding probability	Nov:	33.9%	Change Nov: +3.4%		~~~
Monthly separation probability	Nov:	1.5%	Change Nov: -0.1%		\
% involuntary part-time	Nov:	2.8%	Change Nov: -0.1%		
"Household" vs "Payroll" jobs	Change Nov:	+1699			أجروب

Source: Bureau of Labor Statistics, TrendMacro calculations

For more information contact us:

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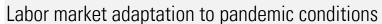
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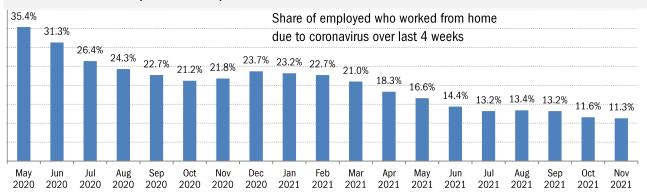
Today's jobs data: a d	eeper div	е					
Non-farm payrolls SA	Change Nov:	+210	Revision Oct:	+15	Revision Sep:	+67	patatha.
Non-farm payrolls NSA	Change Nov:	+778	Revision Oct:	+18	Revision Sep:	-9	4
Birth-death adjustment	Change Nov:	+12					بارشناس
Employment	Change Nov:	+1136					
Unemployment rate	Nov:	4.24%	Change Nov:	-0.35%			
White employment	Change Nov:	+647					
White unemployment rate	Nov:	3.7%	Change Nov:	-0.3%			
Black employment	Change Nov:	+169					- I _t hatana
Black unemployment rate	Nov:	6.7%	Change Nov:	-1.2%			
Hispanic employment	Change Nov:	+502					_p .m.n.ld
Hispanic unemployment rate	Nov:	5.2%	Change Nov:	-0.7%			
Asian employment	Change Nov:	+58					المسالية المناب
Asian unemployment rate	Nov:	3.8%	Change Nov:	-0.4%			
HS only employment	Change Nov:	+57					hepique.
HS only unemployment rate	Nov:	4.9%	Change Nov:	-0.2%			
Men employment	Change Nov:	+541					n_1.lml
Men unemployment rate	Nov:	4.2%	Change Nov:	-0.3%			
Women employment	Change Nov:	+595					السابناتين
Women unemployment rate	Nov:	4.3%	Change Nov:	-0.4%			

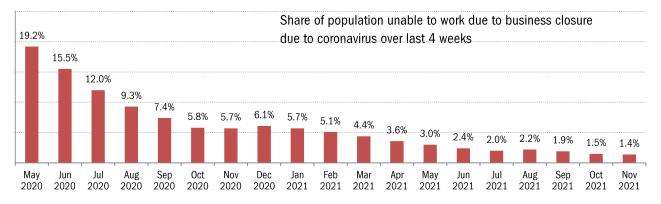
Source: Bureau of Labor Statistics, TrendMacro calculations

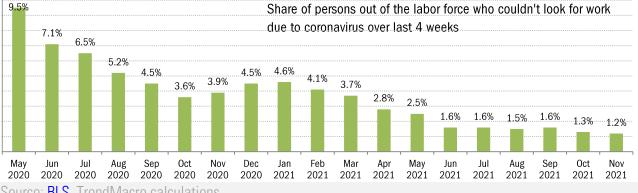
TrendMacro Payroll Model based on contemporaneous labor market statistics											
ADP Payrolls	ISM Manu Employ Index	ISM Services Employ Index	Change continuing claims	Initial claims	Challenger Layoffs	NFIB Hiring Plans	NFIB Employ				
+534	53.3	51.6	-518	271	14875	25	-2				
Model estimate	Actual	Actual beat(+) or miss (-)									
+322	+210	-112									

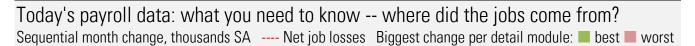
Source: ADP, ISM, DOL, Challenger, NFIB, BLS, TrendMacro calculations

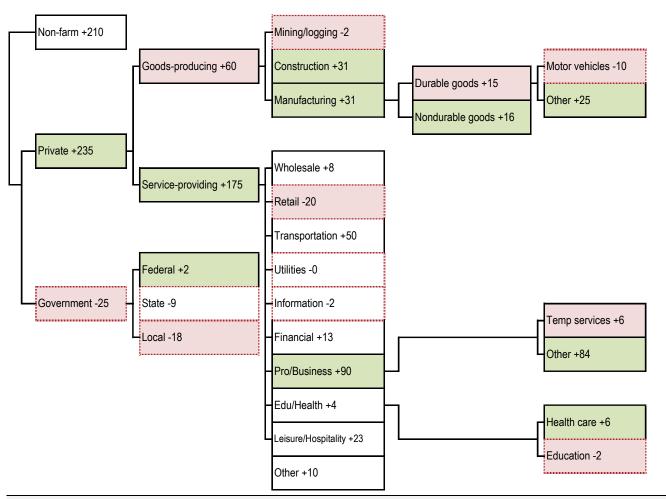




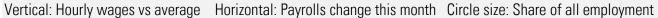


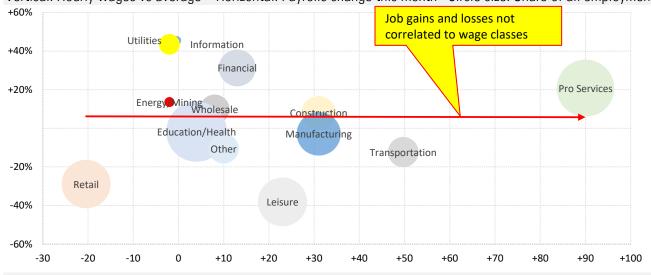






Where is the pay coming from?

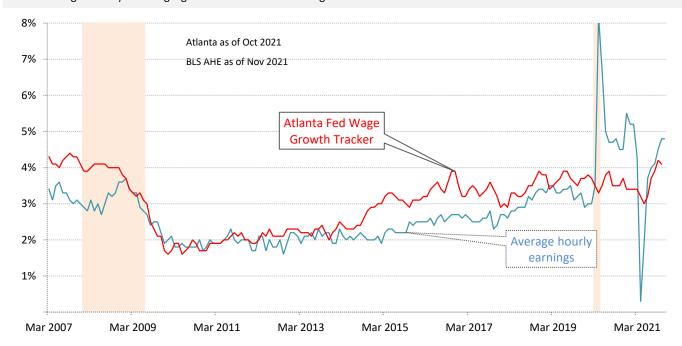




Source: BLS, TrendMacro calculations

Solving the wage-growth puzzle

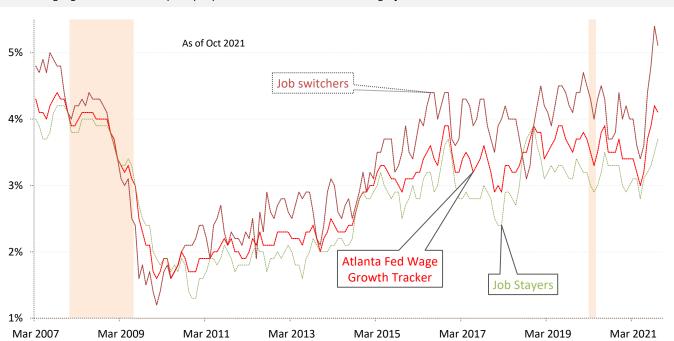
YOY average hourly earnings growth Atlanta Fed Wage Growth Index Recession



Source: BLS Current Employment Statistics, Atlanta Federal Reserve Bank, TrendMacro calculations

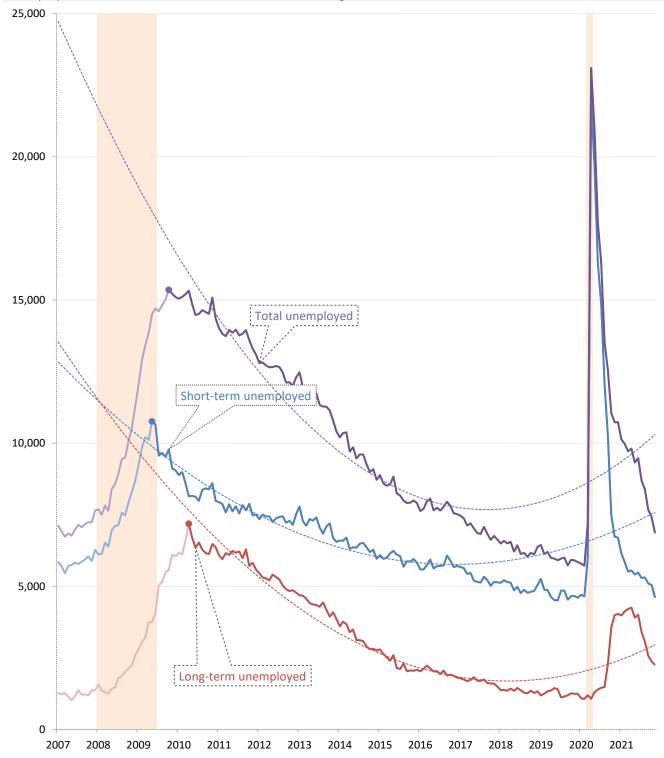
The wages of dynamism

YOY wage growth for steady employees, versus those who change jobs Recession



Source: Atlanta Federal Reserve Bank, TrendMacro calculations

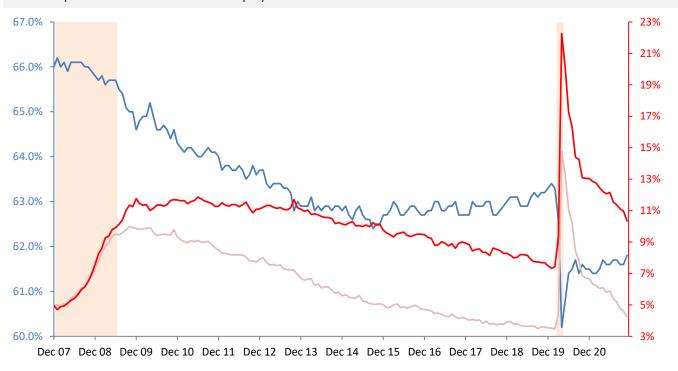
The Great Recession, the jobless recovery, the long boom, and then the virus Unemployment: thousands Short-term = <27 weeks Long-term = >27 weeks



Source: BLS Current Population Survey, TrendMacro calculations

— Unemployment rate normalized for participation rate December 2007

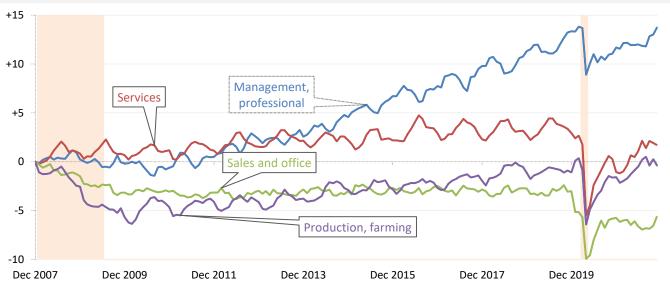
Participation rate — Headline unemployment rate — Recession



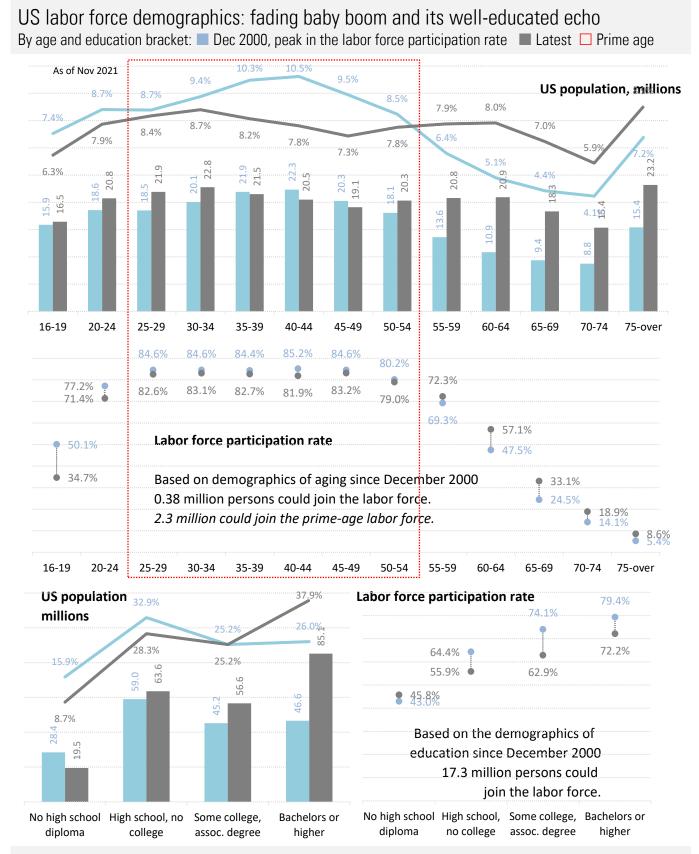
Source: BLS Current Population Survey, TrendMacro calculations

Winner and losers in the long boom and the virus crisis

Change in total payrolls from prior business cycle peak, millions



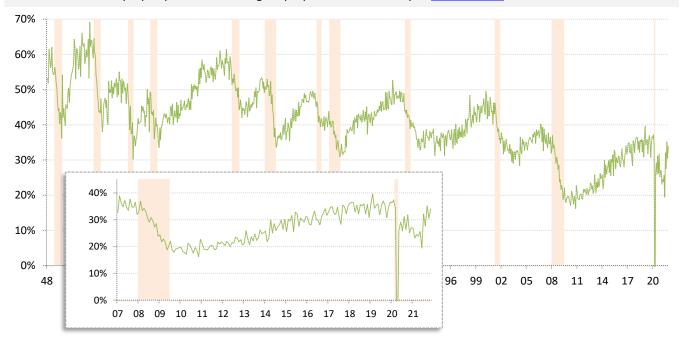
Source: BLS, NBER, TrendMacro calculations



Source: BLS Current Population Survey, TrendMacro calculations

Monthly job-finding probability (the outflow rate from unemployment)

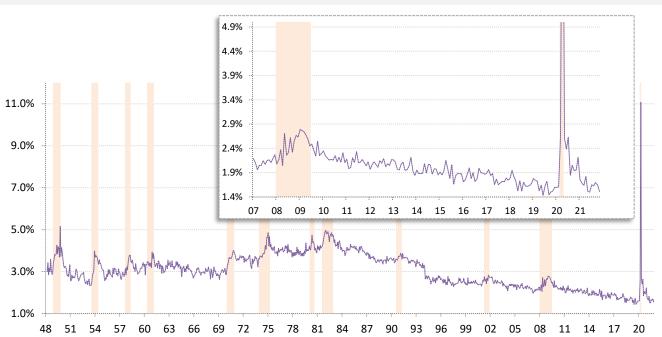
Chance of an unemployed person becoming employed in one month (per Shimer 2005) Recession



Source: BLS Current Population Survey, TrendMacro calculations

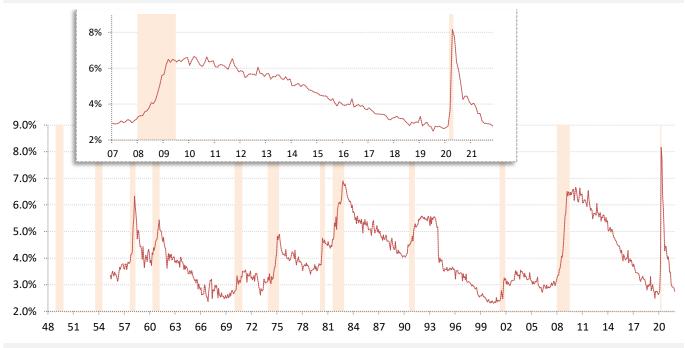
Monthly job-separation probability (the inflow rate to unemployment)

Chance of an employed person becoming unemployed in one month (per Shimer 2005) Recession

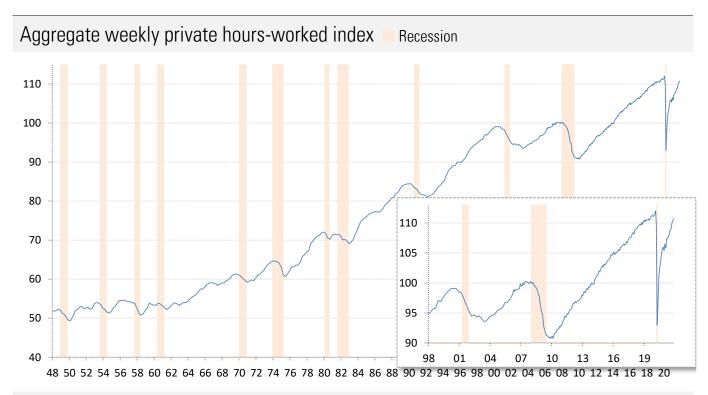


Source: BLS Current Population Survey, TrendMacro calculations

Involuntary part-time workers as percentage of the employed labor force Persons available for full-time work Recession



Source: BLS Current Population Survey, TrendMacro calculations



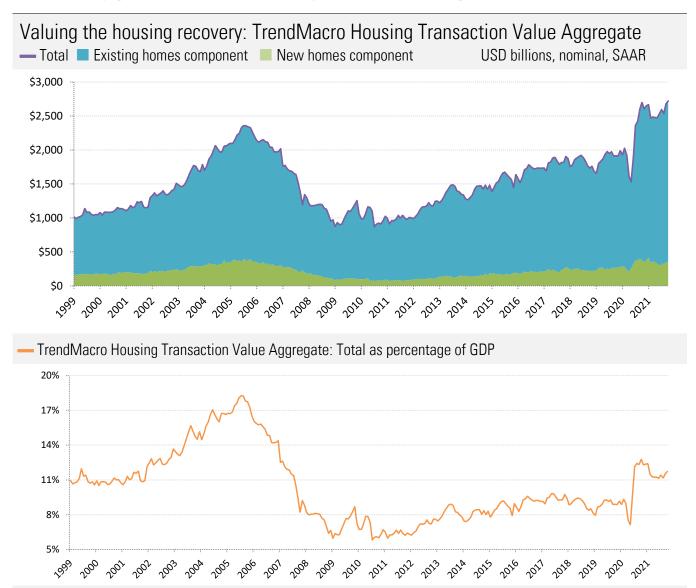
Source: BLS Productivity and Costs (quarterly) and Current Employment Stats (recent monthly), TrendMacro calcs



Data Insights: A Few of Our Favorite Things

Wednesday, November 24, 2021

Mid-frequency growth indicators not already covered in other regular reports.

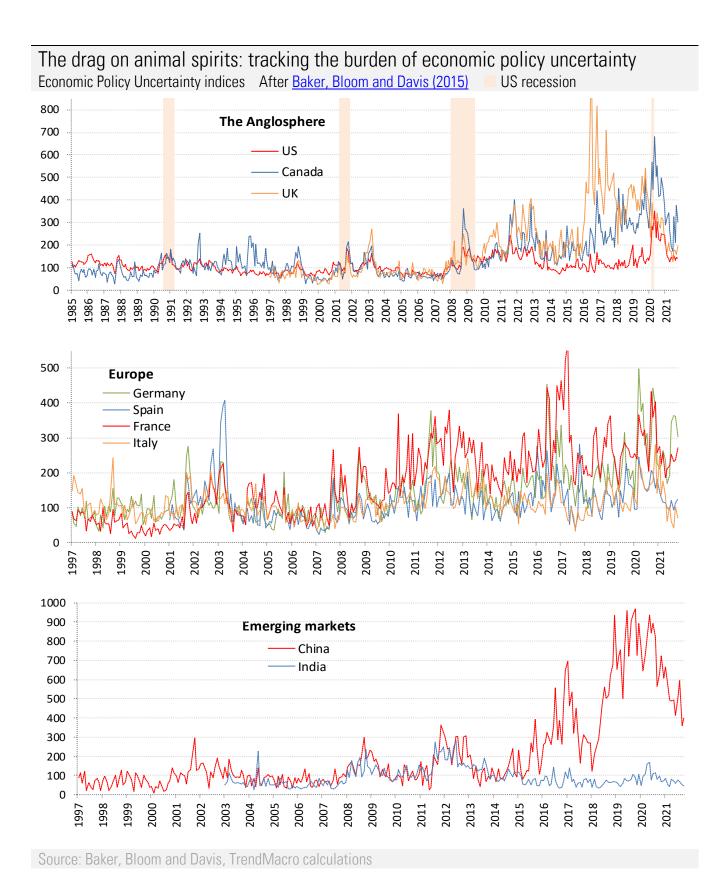


Source: Census Bureau, National Assoc. of Realtors, Bureau of Economic Analysis, TrendMacro calculations

For more information contact us:

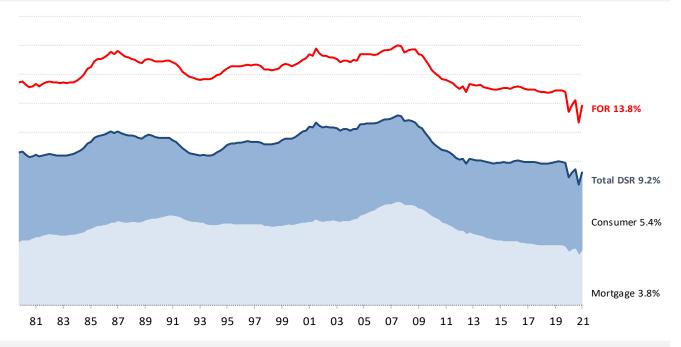
Donald Luskin: 312 273 6766 don@trendmacro.com
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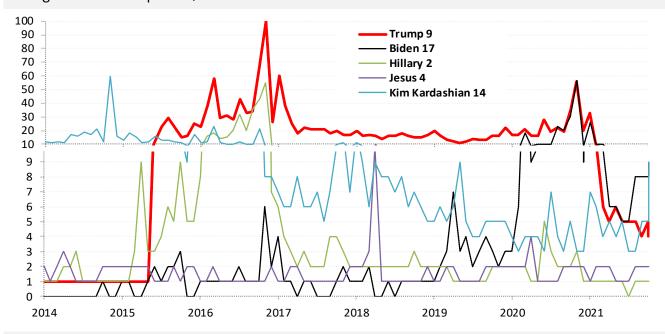
The deleveraged consumer: Financial obligation and debt service ratios

Payments of mortgage and consumer debt, automobile leases, home rental and insurance, and property taxes as percentage of after-tax income.



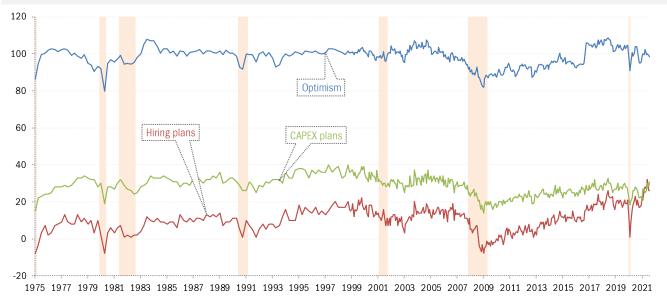
Source: Federal Reserve, TrendMacro calculations

Biden fights the ghost of Trump for public mindshare Google search requests, normalized to 100

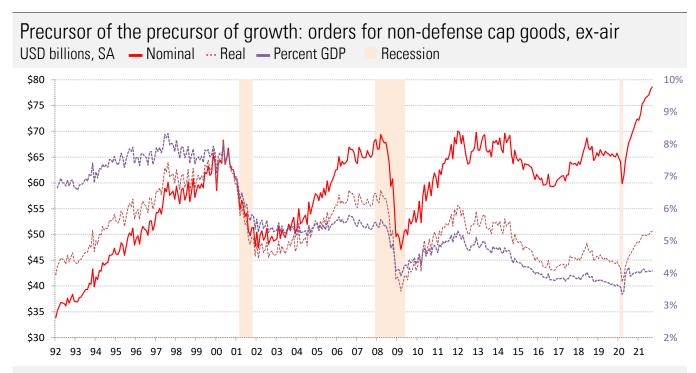


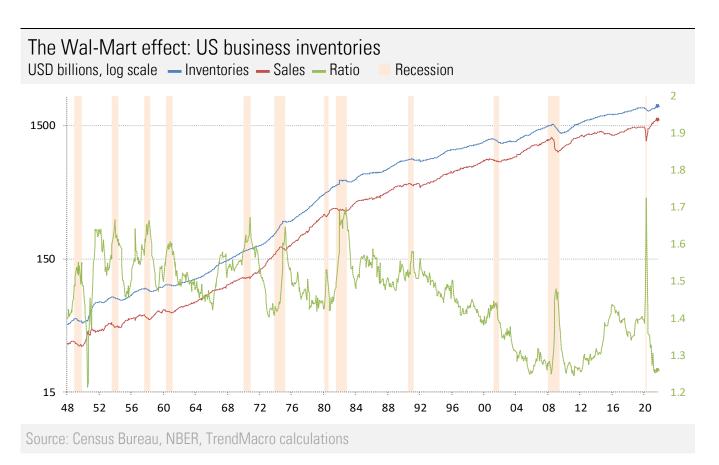
Source: Google Trends, TrendMacro calculations

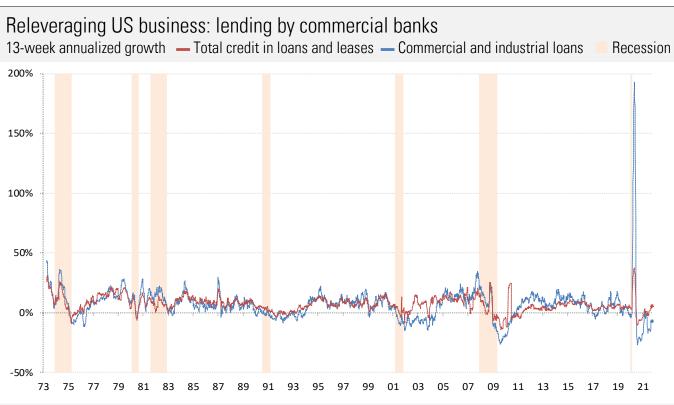




Source: NFIB, NBER, TrendMacro calculations







Source: Federal Reserve, NBER, TrendMacro calculations



Trend Macrolytics, LLC Donald Luskin, Chief Investment Officer Thomas Demas, Managing Director Michael Warren, Energy Strategist

Data Insights: Global Equity Risk Premia

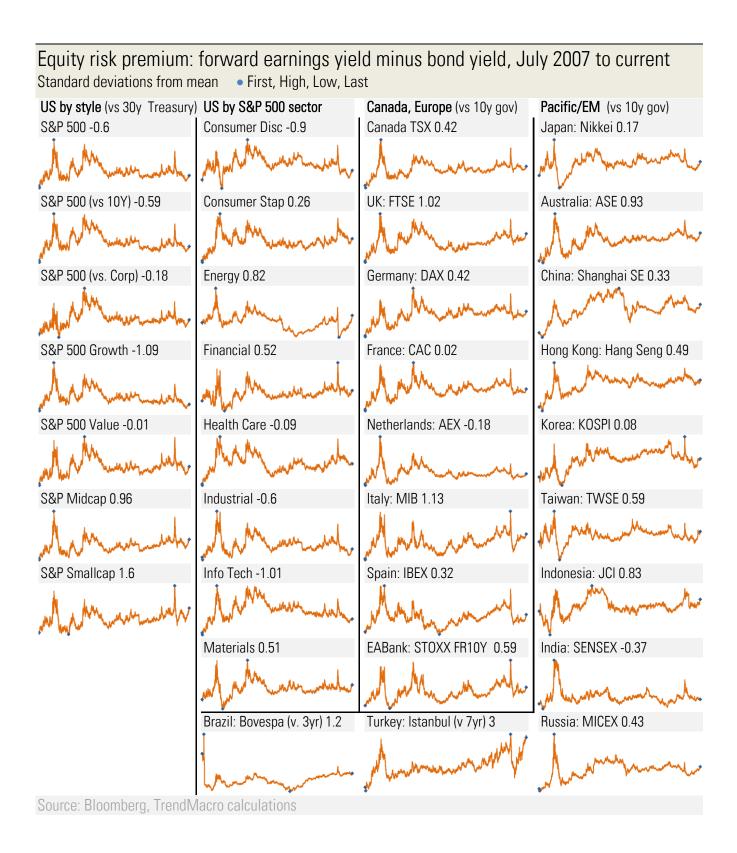
Monday, August 2, 2021

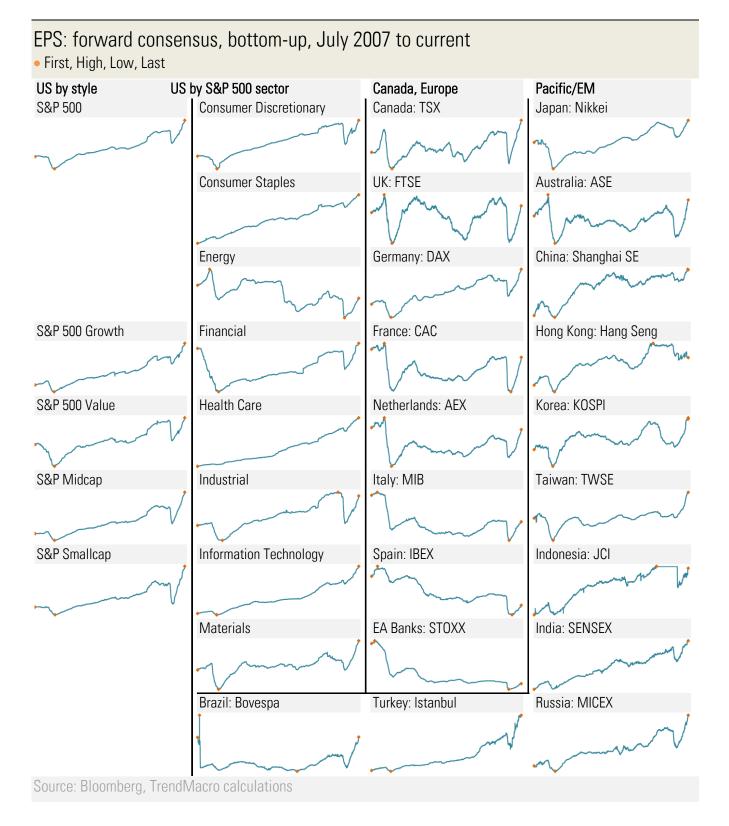
NOTE: In September 2016, Standard & Poor's created a new Real Estate sector from stocks that had been in the Financials sector. In October 2018 it converted the Telecom sector to "Communications Services," moving stocks from Info Tech and Consumer Discretionary. These changes distort metrics for those sectors throughout this report. The overall S&P 500 is not affected.

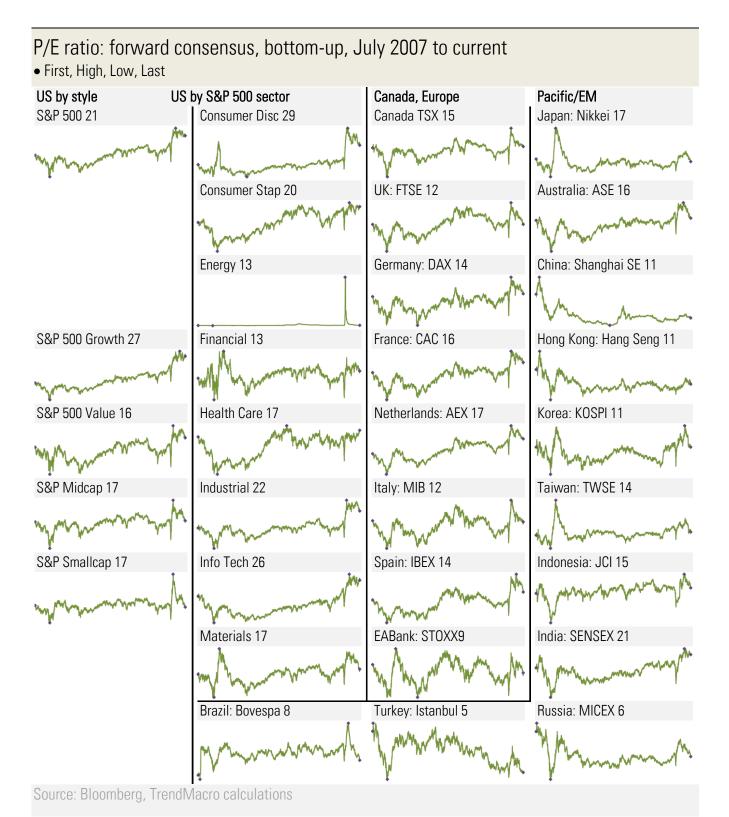
Globa	al leader-board	l: by e	quity risk prem	value, and growth 📘 Best 💻 Worst				
Rank	Equity risk premium	•	Forward PE ratio		Fwd earnings upgrad	e rate	Fwd sales upgrade ra	ite
	By SD from 2007-> me	an			Trailing 90 days, AR		Trailing 90 days, AR	
	By country		By country		By country		By country	
1	Turkey: Istanbul	+3.01	Turkey: Istanbul	5.4	Russia: MICEX	+78%	HK: Hang Seng	+49%
2	Brazil: Bovespa	+1.21	Russia: MICEX	6.6	Australia: ASE	+70%	Russia: MICEX	+48%
3	Italy: MIB	+1.13	Brazil: Bovespa	8.7	Spain: IBEX	+67%	Germany: DAX	+33%
4	UK: FTSE	+1.03	Korea: KOSPI	11.3	Taiwan:TWSA	+64%	Indonesia:JCI	+25%
5	Australia: ASE	+0.93	HK: Hang Seng	11.6	Netherlands: AEX	+60%	Netherlands: AEX	+21%
6	Indonesia:JCI	+0.83	China: Shanghai SE	11.6	Brazil: Bovespa	+59%	Australia: ASE	+17%
7	Taiwan:TWSA	+0.59	UK: FTSE	12.5	France: CAC	+55%	India: SENSEX	+16%
8	HK: Hang Seng	+0.50	Italy: MIB	12.7	UK: FTSE	+48%	US: S&P 500	+16%
9	Russia: MICEX	+0.43	Germany: DAX	14.1	Germany: DAX	+48%	China: Shanghai SE	+12%
10	Canada:TSX	+0.42	Taiwan:TWSA	14.4	Japan: Nikkei	+46%	France: CAC	+12%
11	Germany: DAX	+0.42	Spain: IBEX	14.9	Canada:TSX	+44%	Japan: Nikkei	+10%
12	China: Shanghai SE	+0.34	Indonesia:JCI	15.0	Italy: MIB	+40%	Taiwan:TWSA	+8%
13	Spain: IBEX	+0.33	Canada:TSX	15.8	US: S&P 500	+37%	Korea: KOSPI	+8%
14	Japan: Nikkei	+0.18	France: CAC	16.3	Indonesia:JCI	+35%	Canada:TSX	+3%
15	Korea: KOSPI	+0.08	Australia: ASE	16.8	Korea: KOSPI	+25%	UK: FTSE	+2%
16	France: CAC	+0.02	Netherlands: AEX	17.2	India: SENSEX	+21%	Turkey: Istanbul	+2%
17	Netherlands: AEX	-0.19	Japan: Nikkei	17.3	Turkey: Istanbul	+21%	Brazil: Bovespa	+1%
18	India: SENSEX	-0.37	US: S&P 500	21.0	China: Shanghai SE	+12%	Italy: MIB	-1%
19	US: S&P 500	-0.61	India: SENSEX	21.6	HK: Hang Seng	-20%	Spain: IBEX	-3%
	US, by style		US, by style		US, by style		US, by style	
1	S&P Smallcap	+1.61	S&P 500 Value	16.6	S&P Smallcap	+81%	S&P Midcap	+29%
2	S&P Midcap	+0.96	S&P Smallcap	17.1	S&P Midcap	+57%	S&P Smallcap	+23%
3	S&P 500 Value	-0.02	S&P Midcap	17.8	S&P 500 Value	+41%	S&P 500 Growth	+19%
4	S&P 500	-0.61	S&P 500	21.0	S&P 500	+37%	S&P 500	+16%
5	S&P 500 Growth	-1.09	S&P 500 Growth	27.4	S&P 500 Growth	+32%	S&P 500 Value	+15%
	US, by sector		US, by sector		US, by sector		US, by sector	
1	Energy	+0.82	Financial	13.7	Energy	+218%	Energy	+29%
2	Financial	+0.53	Energy	14.0	Consumer Disc	+78%	Materials	+24%
3	Materials	+0.51	Materials	17.4	Industrial	+70%	Consumer Disc	+23%
4	Consumer Stap	+0.26	Health Care	17.5	Materials	+65%	Industrial	+22%
5	Health Care	-0.10	Utilities	19.4	Communications	+38%	Info Tech	+19%
6	Utilities	-0.12	Communications	20.6	Info Tech	+32%	Communications	+18%
7	Industrial	-0.61	Consumer Stap	20.8	Financial	+22%	Consumer Stap	+11%
8	Communications	-0.68	Industrial	22.3	Health Care	+14%	Financial	+9%
9	Consumer Disc	-0.90	Info Tech	26.4	Consumer Stap	+13%	Utilities	+7%
10	Info Tech	-1.01	Consumer Disc	29.0	Utilities	+3%	Health Care	+5%
Source	: Bloomberg, Trendl	Macro c	alculations					

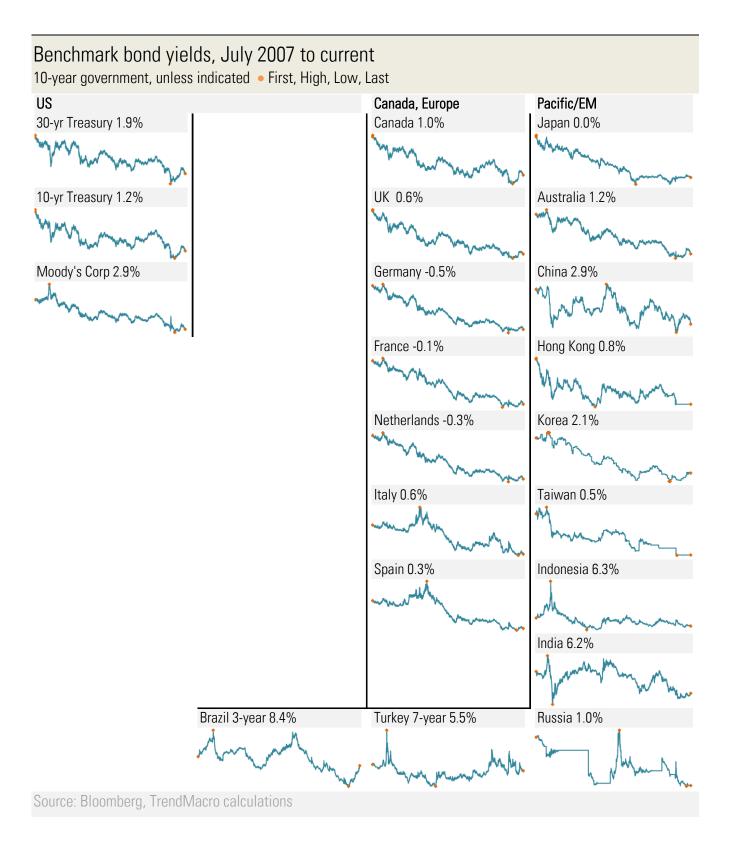
Source: Bloomberg, TrendMacro calculations

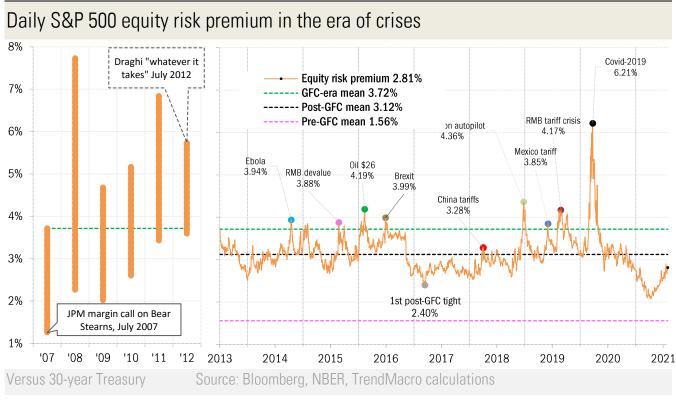
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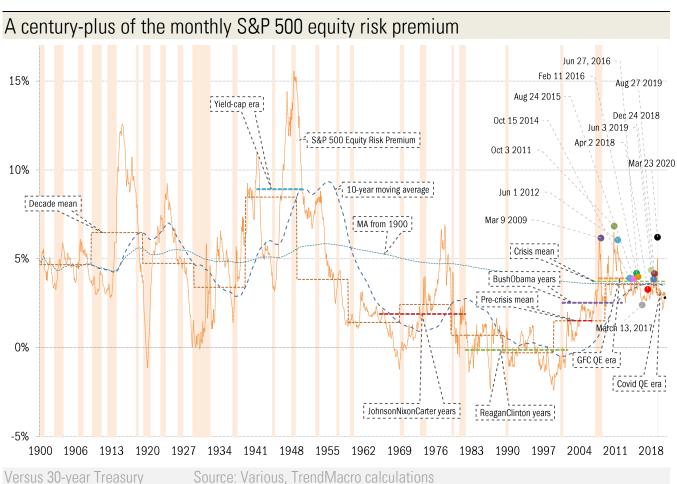




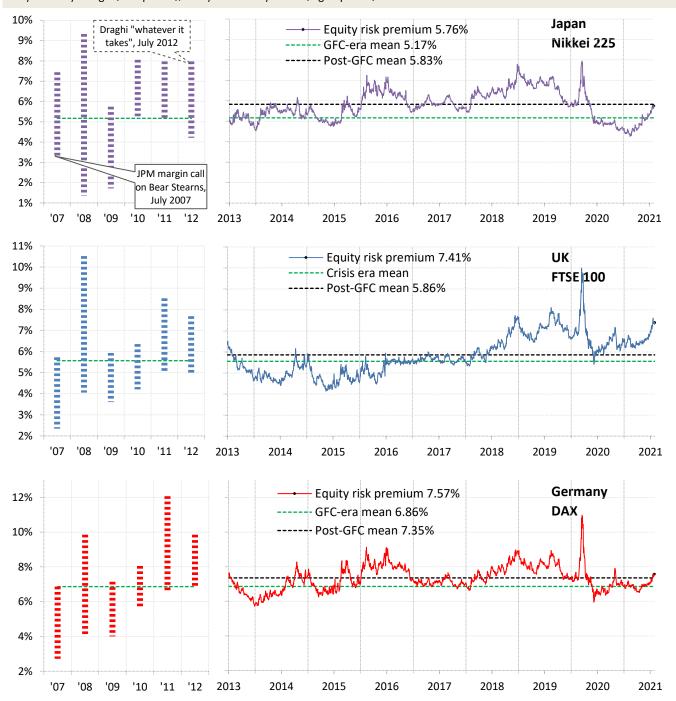






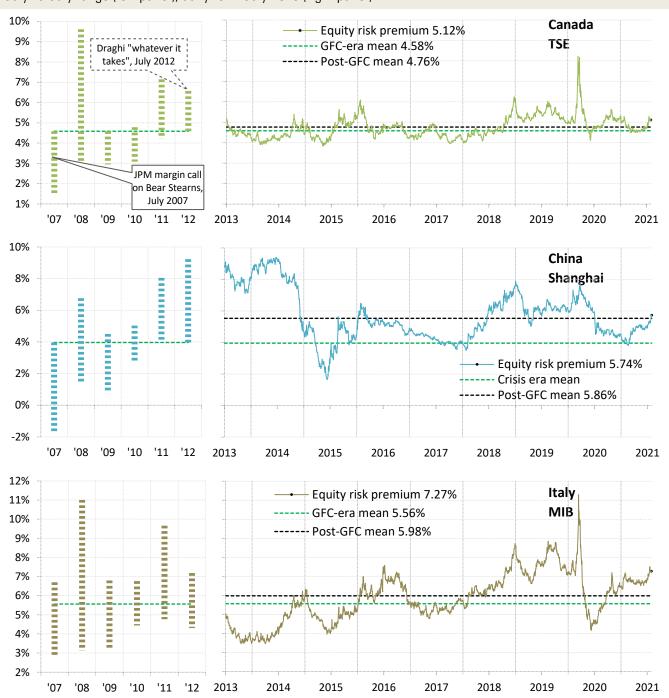


Close-up: Global equity risk premia in the crisis, and its aftermath July-to-July range (left panel), daily from July 2013 (right panel)



Source: Bloomberg, TrendMacro calculations

Close-up: Global equity risk premia in the crisis, and its aftermath July-to-July range (left panel), daily form July 2013 (right panel)

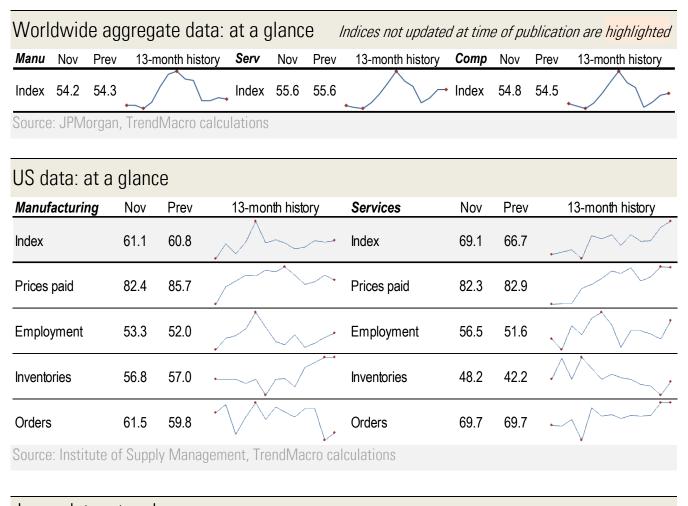


Source: Bloomberg, TrendMacro calculations



Data Insights: Global PMI

Friday, December 3, 2021



Japan	data:	at a	g	lance
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Manufacturing	Nov	Prev	13-month history	Services	Nov	Prev	13-month history
Index	54.5	53.2		Index	53.0	50.7	·

Source: Markit/Nomura, TrendMacro calculations

For more information contact us:

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Europe data: at a glance											
Manufacturing	Last	Prev	13-month history	Services	Last	Prev	13-month history				
Eurozone Nov	58.4	58.3		Eurozone Nov	55.9	54.6					
UK Nov	58.1	57.8		UK Nov	58.5	59.1					
Germany Nov	57.4	57.8		Germany Nov	52.7	52.4					
France Nov	55.9	53.6		France Nov	57.4	56.6					
Italy Nov	62.8	61.1		Italy Nov	55.9	52.4					
Spain Nov	57.1	57.4		Spain Nov	59.8	56.6					
Ireland Nov	59.9	62.1		Ireland Nov	59.3	63.4					
Netherlands Nov	60.7	62.5									
Austria Nov	58.1	60.6									
Greece Nov	58.8	58.9									
Czech Rep Nov	57.1	55.1									

Source: Markit, Various TrendMacro calculations

Eastern Europe data: at a glance											
Manufacturing	Last	Prev	13-mo history	Services	Last	Prev	13-mo history				
Russia Nov	51.7	51.6		Russia Nov	47.1	48.8					
Poland Nov	54.4	52.0									
Turkey Nov	53.8	51.2									

Source: Markit, TrendMacro calculations

China data: a	it a gla	ance					
Manufacturing	Nov	Prev	13-month history	Services	Nov	Prev	13-month history
China	50.1	49.2		China	52.3	52.4	
Prices paid	52.9	72.1					
Employment	48.9	48.8		Employment	47.3	47.5	
Orders	49.4	48.8		Orders	48.9	49.0	

Source: China Federation of Logistics and Purchasing, TrendMacro calculations

Asia data: at	a glar	nce					
Manufacturing	Last	Prev	13-mo history	Services	Last	Prev	13-mo history
Hong Kong Nov	52.6	50.8					
Taiwan Nov	54.9	55.2					
S. Korea Nov	50.9	50.2					
Vietnam Nov	52.2	52.1					
India Nov	57.6	55.9		India Nov	58.1	58.5	
Indonesia Nov	53.9	57.2					
Malaysia Nov	52.3	52.2					
Thailand Nov	50.6	50.9					
Phillipines Nov	51.7	51					
Source: Markit N	likkoi Tr	ondMar	ero calculations				

Australia data: at a glance

Manufacturing	Nov	Prev	13-month history	Services	Nov	Prev	13-month history
Index	59.2	58.2		Index	55.7	51.8	

Source: Commonwealth Bank, TrendMacro calculations

Americas data: at a glance

		0					
Manufacturing	Last	Prev	13-mo history	Services	Last	Prev	13-mo history
Brazil Nov	49.8	51.7		Brazil Nov	53.6	54.9	
Mexico Nov	49.4	49.3					
Canada Nov	57.2	57.7					
Colombia Nov	54.9	54					

Source: Markit, TrendMacro calculations

Middle East/Africa data: at a glance

Manufacturing	Last	Prev	13-mo history
Saudi Arabia Oct	57.7	58.6	
UA Emirates Oct	55.7	53.3	
Egypt Oct	48.7	48.9	
S. Africa Nov	51.7	48.6	

Source: Markit, TrendMacro calculations

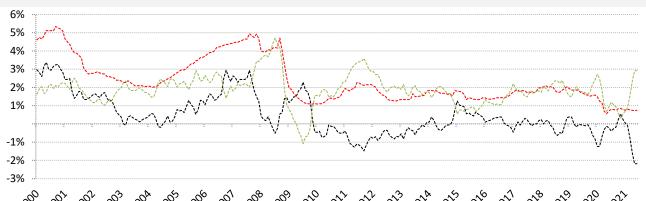


Data Insights: Global Real Rates and Long-term Yields

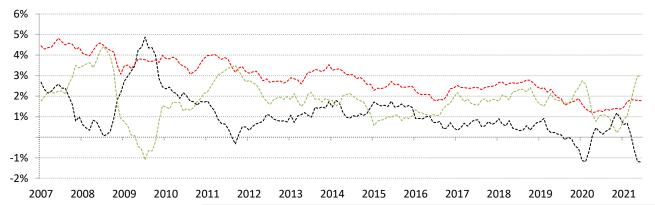
Friday, June 18, 2021

The world-wide average inflation-adjusted cost of debt

US, Euro Area, Japan, UK, Brazil, India and China rates and yields weighted by nominal GDP at official USD (For 10-year, Euro Area is capital-key weighted average of DE, FR, IT, ES, ND, BE)



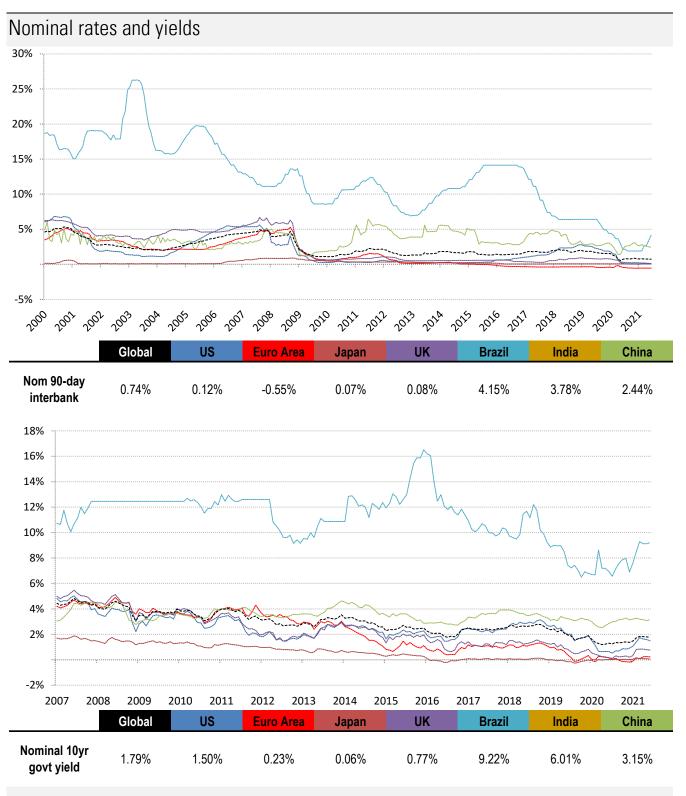
		Global	US	Euro Area	Japan	UK	Brazil	India	China
Nom 90-day interbank		0.74%	0.12%	-0.55%	0.07%	0.08%	4.15%	3.78%	2.44%
less	СРІ	2.93%	5.00%	2.00%	-0.10%	2.10%	8.90%	0.00%	1.40%
eguals	Real rate	-2.19%	-4.88%	-2.55%	0.17%	-2.02%	-4.75%	10.31%	1.04%



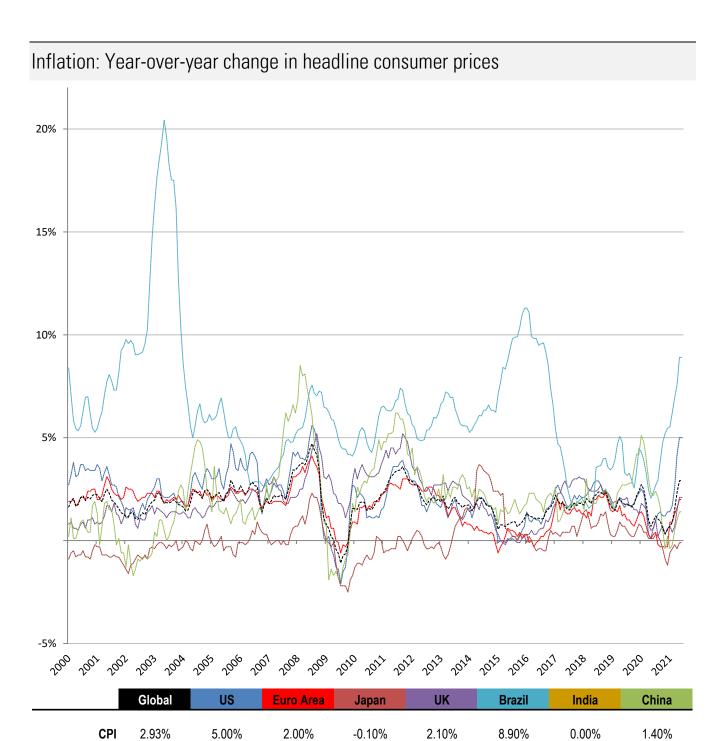
		0	US	Euro Area	Japan	UK	Brazil	India	China
Nominal 10yr govt yield		1.79%	1.50%	0.23%	0.06%	0.77%	9.22%	6.01%	3.15%
less	СРІ	2.93%	5.00%	2.00%	-0.10%	2.10%	8.90%	0.00%	1.40%
equals	Real yield	-1.20%	-3.50%	-2.17%	0.16%	-1.33%	0.32%	7.76%	1.75%

Source: Respective data bureaus, TrendMacro calculations

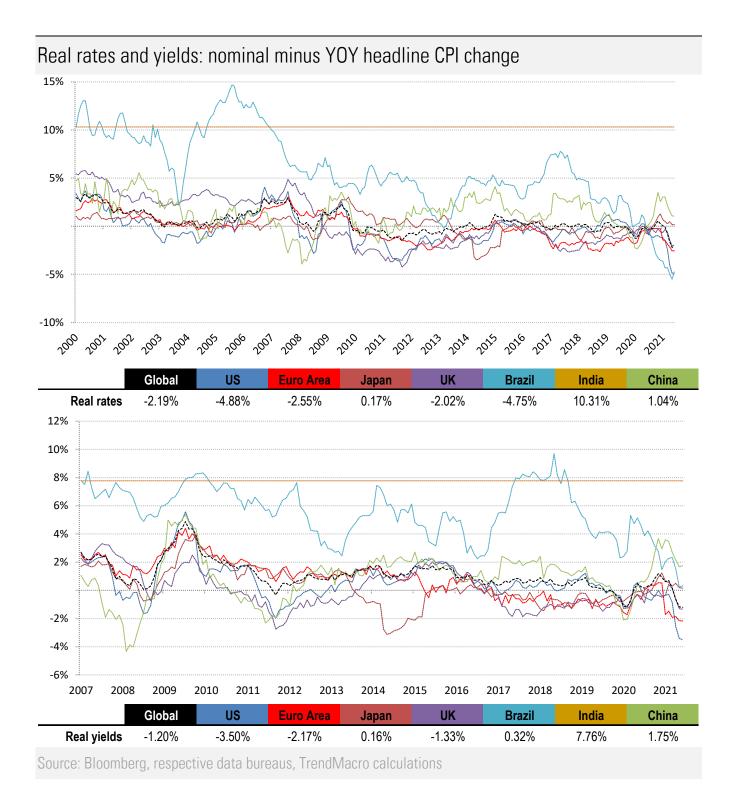
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Source: Bloomberg, TrendMacro calculations



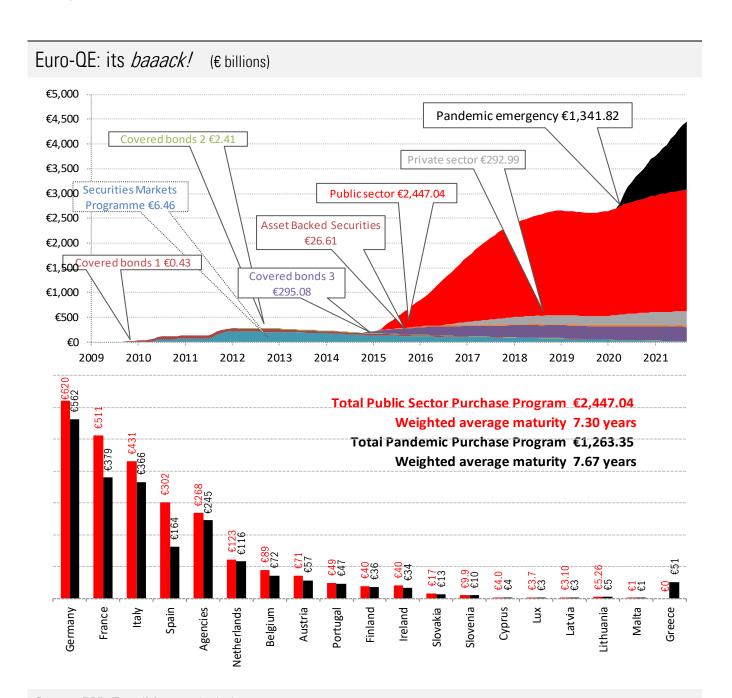
Source: Respective data bureaus, TrendMacro calculations





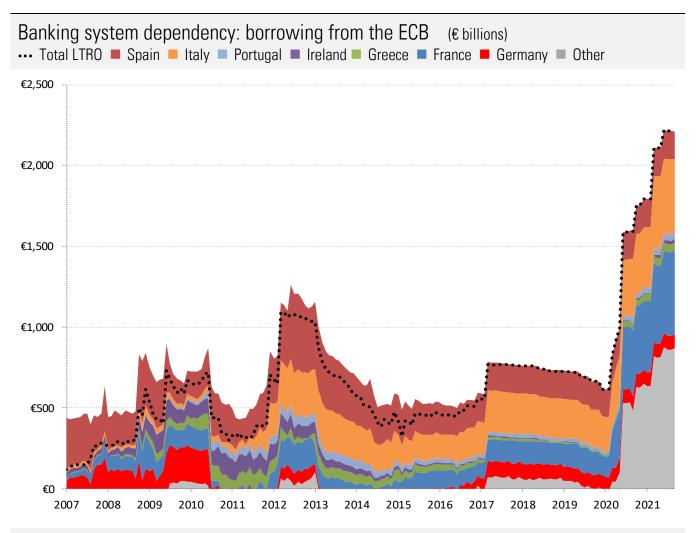
Data Insights: Euro Area Recovery Monitor

Thursday, October 28, 2021

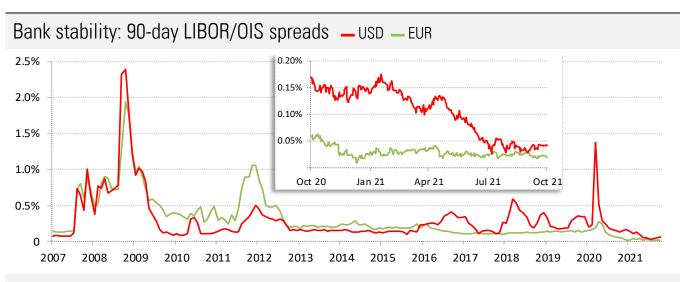


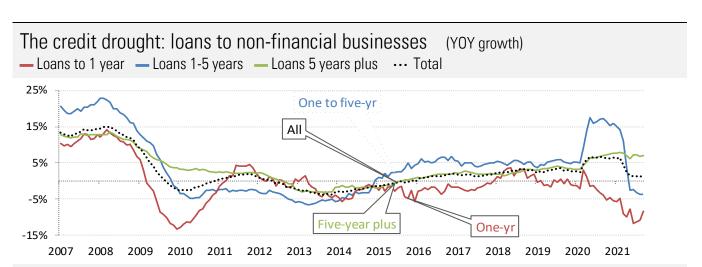
Source: ECB, TrendMacro calculations

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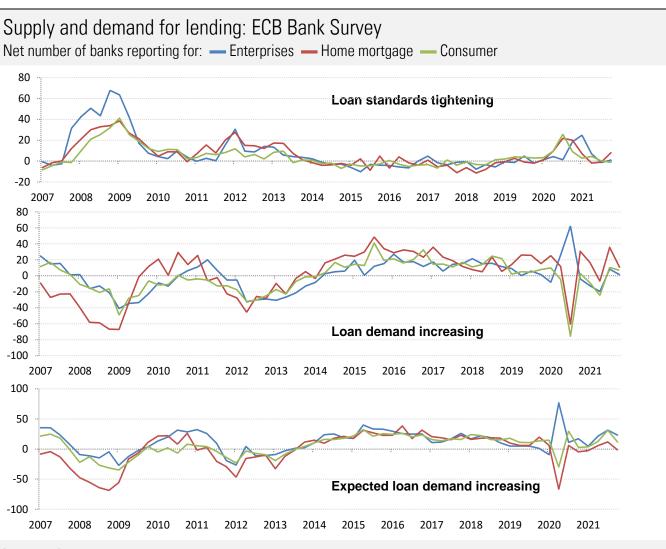


Source: ECB, National central banks, TrendMacro calculations

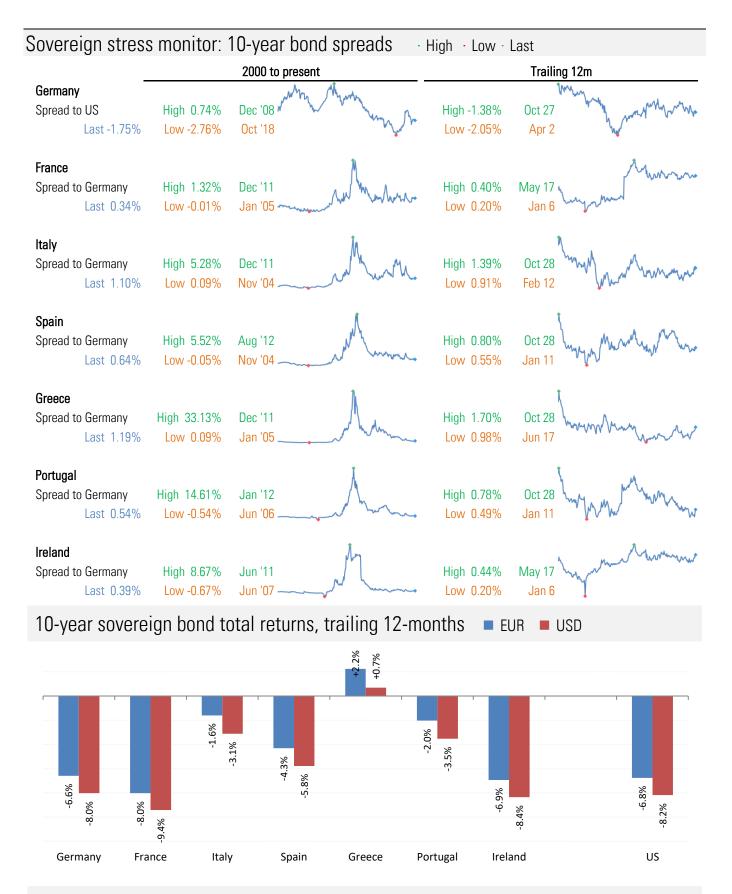




Source: ECB, TrendMacro calculations



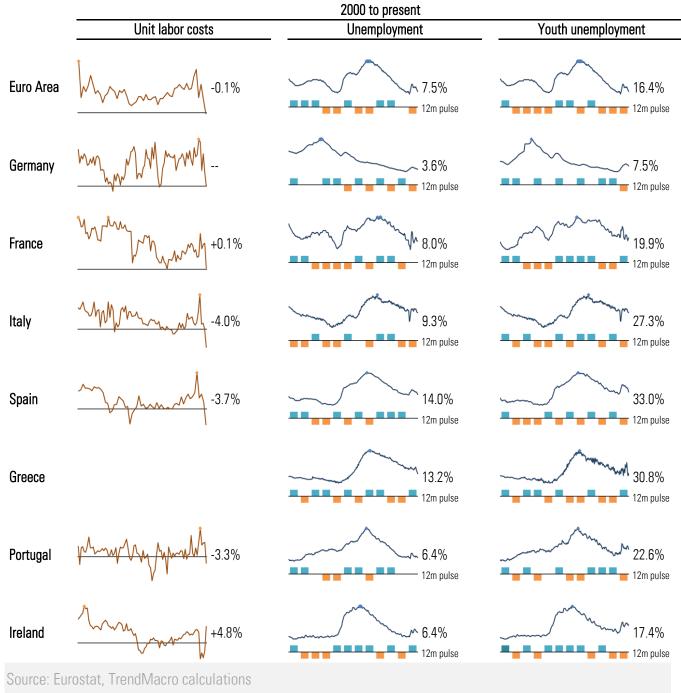
Source: ECB, TrendMacro calculations



Source: Bloomberg, TrendMacro calculations

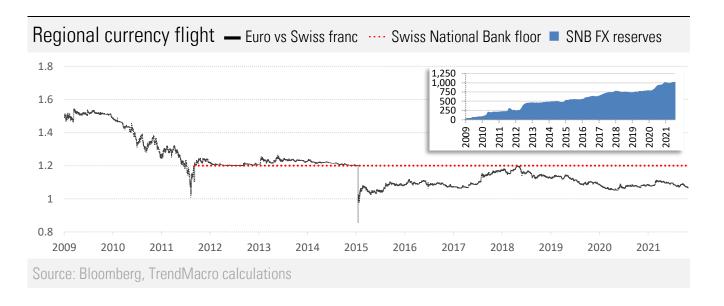
Labor market in intensive care

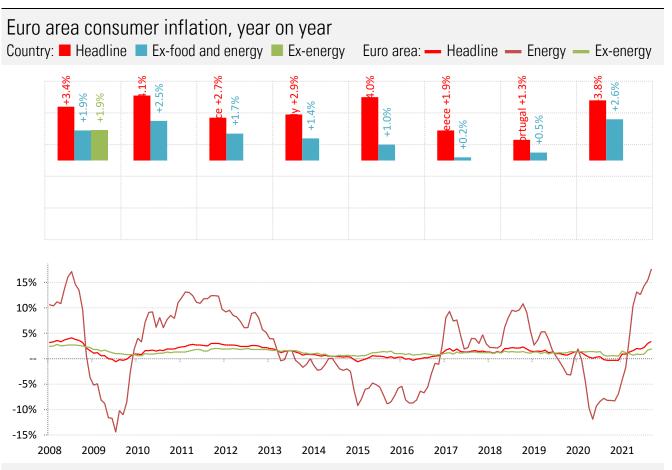
ULC: Nominal, quarterly YOY UE: · High 12m pulse: monthly ■improvement or ■worsening in rate of change



Purchasing Manager Indices									
Manufacturing	Last	Prev	13-month history	Services	Last	Prev	13-month history		
Eurozone Sep	58.6	61.4		Eurozone Sep	56.4	59.0			
UK Sep	57.1	60.3		UK Sep	55.4	55.0			
Germany Sep	58.4	62.6		Germany Sep	56.2	60.8			
France Sep	55.0	57.5		France Sep	56.2	56.3			
Italy Sep	59.7	60.9		Italy Sep	46.7	39.4			
Spain Sep	58.1	59.5		Spain Sep	56.9	60.1			
Ireland Sep	60.3	62.8		Ireland Sep	63.7	63.7			
Netherlands Sep	62.0	65.8							
Austria Sep	62.8	61.8							
Greece Sep	58.4	59.3							
Czech Rep Sep	58.0	61.0							

Source: Markit, TrendMacro calculations





Source: Eurostat, TrendMacro calculations

Draghi's old dashboard:

Swap-implied inflation expectations since "Whatever it takes"

- 5-year inflation-swap rate, 5 years forward



Source: Bloomberg, TrendMacro calculations